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TRINITY RIVER PROJECT, TEXAS



STATUS REPORT OF ENVIRONMENTAL EVALUATIONS

APPENDIX B BIOLOGICAL INVENTORY WITH EFFECT EVALUATION





U.S. ARMY ENGINEER DISTRICT, FORT WORTH

CORPS OF ENGINEERS

FORT WORTH, TEXAS

JUNE 1975

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REPORT DOCUMENTAT	ION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT HUMBER	2. GOVT ACCESSION NO	. 3. RECIPIENT'S CATALOG NUMBER
$\widehat{\mathcal{A}}$	AD-1097128	<u>}</u>
A. TIPLE (and Subtitle)	All began and the contraction of the proceedings and the contraction of the contraction o	5. TYPE OF REPORT & PERIOD COVERED
Status Report of Environmental Trinity River Project, Texas	1. Opendia	Environmental evaluation
Biological Inventory with	Effect Evaluation	4. PERFORMING ORG. REPORT NUMBER
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PERFORMING ORGANIZATION NAME AND ADD		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
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9. KEY WORDS (Continue on reverse side if necess	eary and identify by block number	······································
Environmental status report		
Trinity River Authority		
Trinity River Project, Texas		
	er and identify by block symbol) mt
of environmental evaluation of	Trinity River Proje	ect. This includes (1)
Authorized Project Plan that p supply, navigation, fish and w	rovides for flood co	ontrol, recreation, water
Multiple-purpose Channel (2) N similar to the Authorized Projadverse effects to natural res	ational Economic De ect Plan, but has m	velopment Plan that is any features that delete
Quality Plan that is a nonstru	ctural multiple-pur	pose plan of no action in

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proposes land use regulations for the entire Trinity River flood plain and proposes water conservation in lieu of added development for increasing the water supply. (4) No Action Plan (5) Authorized Project Plan Without Navigation that includes flood control, reservoir regulation channel, strengthen existing agricultural levees, and enlarge Tennessee Colony Lake. This plan reduces some of the adverse effects on natural resources. (6) Authorized Project Plan Without Navigation, Provisions for Future Navigation. This is the same as the previous plan except providing for navigation in the initial stages of design and construction. (7) Authorized Project Plan, Navigation Terminated Downstream from Dallas. Similar to Authorized Project Plan except for the flood control channel. Tax and bond issues were rejected by voters. Congress directed Corps of Engineers to cease further planning for fiscal year 1974 and 1975.

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TABLE OF CONTENTS

Appendix	B-1	Quantitative Vegetational Analysis
Appendix	B-2	Champion Big Trees in Texas (within the Trinity River Basin)
Appendix	B-3	Quantitative Fish Sampling in the Trinity River Basin
		Fish Species Profiles
		Fish Species - Environmental Variable Correlation
Appendix	B-4	Mammal Census
Appendix	B-5	Bird Census
Appendix	в-6	Biological Inventories and Impact Assessment
		Invertebrates Reported from the Trinity

River Basin

Fishes of Trinity River Drainage

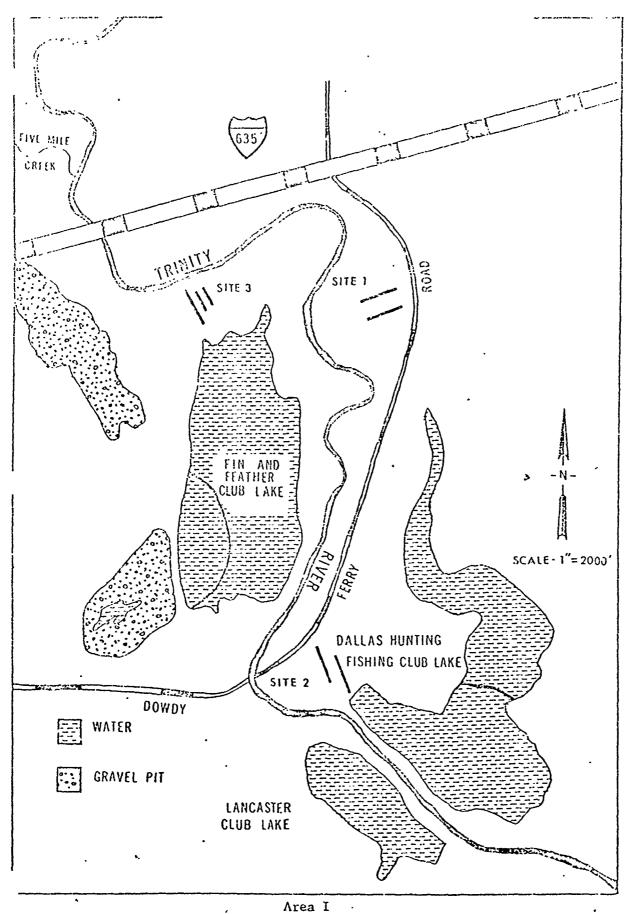
Amphibians in Trinity River Drainage

Reptiles in Trinity River Drainage

Birds of Trinity River Drainage

Mammals of Trinity River Drainage

Vegetation of Trinity River Drainage



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Appendix B-1 Showing sites 1, 2, and 3 and the position of transects within these sites.

Appendix B-1 . Frequency, density and dominance data for plant species located in Site 1, Area l

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Species	Frequency $\%$	Relativo Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	·Importance Value*	
Texas Sugarberry Cedar Elm Swamp Privet Green Ash Osage Orange Soap Rerry Honey Locust Red Mulberry Elm**	58.0 47.5 42.5 30.0 7.0 5.0 1.0	29.9 24.5 21.9 3.6 2.6 0.3 0.3	3,19 1,27 1,24 0,48 0,09 0,14 0,01 0,01	49.4 19.2 7.4 7.4 1.3 0.5 0.1	19.6 33.6 12.4 24.8 8.1 0.1 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4	98.9 77.8 53.5 47.7 13.0 5.2 2.5 0.4	ļ
Total	I 8 1	100.1	6.47	100.1	100.0	300.2	

^{*} Sum of relative frequency, relative density, and relative dominance.

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^{**} May include American Elm and Slippery Elm.

^{***} Value less than 0.1%.

Appendix B-1 . Size classes (dbh) of plant species located in Site 1, Area 1.

Species							(cm)			
	1-10	11-20	21-30	31-40	41-50	51-60	6170	71-30	81-90	06 ^
Texas Sugarberry Cedar Elm Swamp Privet Green Ash Osage Orange Soap Berry Honey Locust Red Mulberry Elm*	579 176 218 53 4 27 1	42 23 22 13 11 12 13	16 13 17 1	· 0 0 .	7 1					
Total	1063	145	55	11	က	5	1.			

^{*} May include American Elm and Slippery Elm.

Frequency, density and dominance data for plant species located in Site 2, Area 1 Appendix B-1

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Green Ash Cedar Elm Deciduous Holly Roughleaf Dogwood Shumard Oak Pecan Eastern Red Cedar Elm spp.** Osage Orange Texas Sugarberry	29.5 42.0 51.5 6.3.5 8.5 8.0 17.5	8.3 11.8.1 14.5 12.2 1.8 2.4 6.5 6.5 4.9 32.8	2,70 0.83 1.98 0.08 0.10 0.12 0.12 0.25	26.7 8.2 19.7 0.7 1.0 1.1 18.5	6.3 16.9 2.0 0.9 11.3 7.5 7.5 2.0	41.3 33.1 32.8 16.7 11.1 9.5 9.5
Total	1	100.0	10.15	99.5	100.0	299.5

Sum of relative frequency, relative density, and relative dominance.

** May include American Elm and Slippery Elm.

*** Other species present listed in order of decreasing importance values: Box Ider, Redbud, Eastern Cottonwood, Oak spp., (includes Post Oak and Bottomland Post Oak), White Ash, Red Mulberry, Bur Oak, Soap Berry, Winged Elm, American Beautyberry, Persimmon, Southern Blackhaw, Black Hickory, Gum Bumelia, Honey Locust, Bastard Indigo, Mexican Plum, Chaste Lamb-Tree, Hercules Club, Buckthorn.

Size classes (dbh) of plant species located in Site 2, Area 1 Appendix B-1

Species	1-10	1,1-20	21-30	31-40	Size (Size Classes (cm) 50 51-60 61-70	cm) 61-70	71-80	81-90	06
Green Ash Cedar Elm Deciduous Holly Roughleaf Dogwood Shumard Oak Pecan Eastern Red Cedar Elm spp.* Osage Orange Texas Sugarberry	531 107 335 397 397 112 41 41 336	40 1 7 7 19	75 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	,2m 49 m1 r	24 2 44 2	7 1 1 2	1 1		, —I	
Total	1823	06	58	26	12	4	2		1	

* May include American Elm and Slippery Elm.

** Seeprevious page for a list of other species present.

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Frequency, density and dominance data for plant species located in Site 3, Area 1 Appendix B-1

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Species	Frequency %	Relative Frequency	Density No./Plot	Rolative Density %	Relative Dominance %	Importance Value*
Pecan Cedar Elm Deciduous Holly Texas Sugarberry Roughleaf Dogwood Elm spp.** Bur Oak Eastern Red Cedar Green Ash Red Mulberry	34.0 43.0 57.0 48.5 17.5 12.0 12.5	9.6 11.0 11.0 11.0 12.0 13.5 13.5	0.40 0.67 1.14 1.39 0.18 0.23 0.30 0.15	10.6 10.6 10.8 10.8 20.9 4.9 4.9 14.3	38.3 15.0 2.4 0.8 6.7 6.7 1.7 1.2 8.5	54.3 38.0 35.2 34.2 14.6 10.3 7.6
Total	8 8 2 1	8.66	6.26	6.99	100.0	299.7

Sum of relative frequency, relative density, and relative dominance.

** May include American Elm and Slippory Elm.

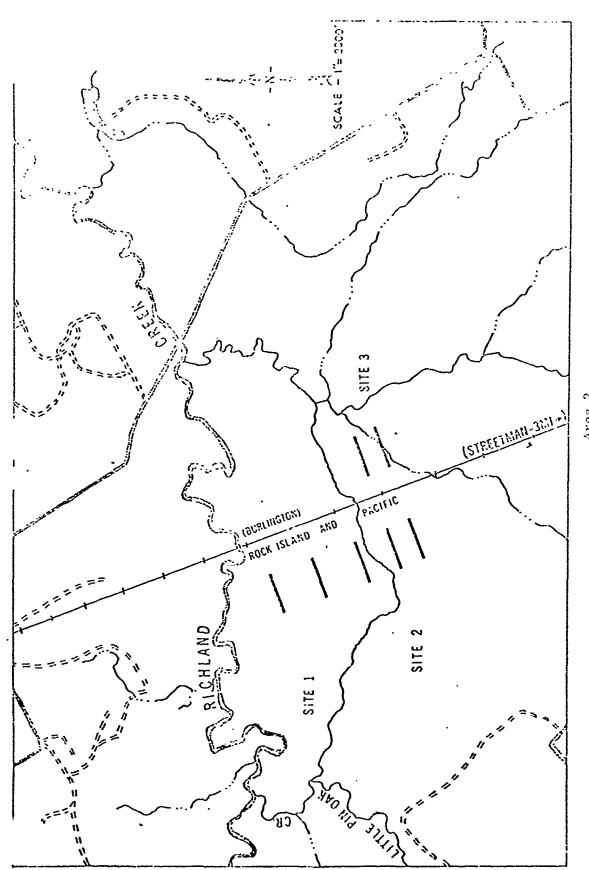
*** Other species present listed in order of decreasing importance values: Shumard Oak, Sozp Berry, Osage Orange, Gum Bumelía, Box Eler, White Ash, Southern Blackhav, Mexican Plum, Bastard Indigo, Persimmon, Honey Locust, Redbud, Wax-leaf Ligustrum, Swamp Privet, Eastern Cottonwood.

Appendix B-1 , Size classes (dbh) of plant species located in Site 3, Area 1.

Species	1-10	11-20	. 21-30	31-40	Size 41-50	Size Classes 50 51-60	(cm) 61-70	71-80	81-90
Pecan Cedar Elm Deciduous Holly Texas Sugarberry Roughleaf Dogwood Elm spp.* Bur Oak Eastern Red Cedar Green Ash Red Mulberry	6 77 227 107 277 277 12 12 16 16	11 38 18 22 13 25 25	35 135 9 3 12 4	1 22 5 58	ъп 64 п	'n	-	ᆏ	
Total	959	162	68	30	13	3	7	rt .	ł

^{*} May include American Elm and Slippery Elm.

^{**} Seeprevious page for a list of other species present.



Area 2 Showing sites 1, 2, and 3 and the position of transcets Appendix 8-1 Shownithin these sites.

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Frequency, density and dominance data for plant species located at Site 1, $\Delta rea \ 2$ Appendix B-1

Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Texas Sugarberry Cedar Elm Forestiera Green Ash Gum Bumelia Soap Berry Hawthorn spp. White Ash Bur Oak Red Mulberry Honey Locust	61.3 11.7 4.3 4.3 5.0 5.7 3.3 3.7 0.7 0.7	62.0 11.8 4.4 5.1 5.7 3.7 2.4 0.7	1.00 0.13 0.24 0.08 0.08 0.04 0.01 0.01 **	60.4 7.8 14.5 4.6 5.0 2.2 2.2 1.4 0.4 0.4	65.8 20.2 1.1 4.7 2.8 1.3 0.5 0.1 ***	188.2 39.8 20.0 14.4 13.5 7.3 6.4 5.6 2.7 1.2 0.5

* Sum of relative frequency, relative density, and relative dominance.

** Value less than 0.01.

*** Value less than 0.1.

Size classes (dbh) of plant species located at Site 1, Area 2. Appendix B-1

				-	Şize	Şize Classes (cm)	(cm)			
	1-10	11-20 21-30	21-30	31-40	41-50	41-50 51-60 61-70	61-70	71-80	81-90	06 <
Texas Sugarberry	24 2	154 4	107 12	17 16	ιn					
Cedar bin Forestiera	71 6	디디	4、	,-4	H					
Gum Bumelia	12	~ ~	9 64							
Soap belly Hawthorn SpP• White Ash	9	n w	က	, , , ,	H					
Bur Oak Red Mulberry		Н								
Honey Locust	4									
Total	127	193	134	36	7					
					,					

Frequency, density and dominance data for plant species located at Site 2, Area 2 Appendix B-1

Species	Frequency %	Relative Frequency %	, Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Texas Sugarberry Green Ash Cedar Elm Forestiera Gum Bumelia Bur Oak Soap Berry Hawthorn spp.	68.0 24.5 12.5 6.5 2.5 17.5 0.5	55.1 10.1 5.3 4.5 1.6 0.4	1.40 0.44 0.17 0.25 0.06 0.02 0.02	58.9 18.4 10.3 1.1 0.6 0.6	61.4 10.4 0.8 1.4 0.6 4.0.6	175.4 59.6 27.7 16.4 8.4 .6.7 3.0 0.6
ŗotal	I I I I	100.0	2.40	100.0	100.0	300.0

Sum of relative frequency, relative density, and relative dominance. *

^{**} Value less than 0.1.

Size classes (dbh) of plant species located at Site 2, Area 2. Appendix B-1

Species				-	Size	Size Classes (cm)	(cm)			
•	1-10	11-20	11-20 21-30	31-40	31-40 41-50	51-60	61-70	71-80	81-90	06 <
Texas Sugarberry Green Ash Cedar Elm Forestiera Gum Bumelia Bur Oak Soap Berry Hawthorn Spp.	24 34 47 47 11 11 11	160 19 12 2 7 7	81 21 10 1	111 6 5 5	6				1	
Total	118	204	114	36	2				ı	

Frequency, density and dominance data for plant species located at Site 3, Area 2 Appendix B-1

			•			
Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	_Importance Value*
Texas Sugarberry Cedar Elm Green Ash Gum Bumelia Bur Oak Hawthorn spp. Honey Locust Red Mulberry Osage Orange Soap Berry Others***	30.0 1.23.0 1.33.0 1.35.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55.0 1.55	34.7 193.7 1.0 1.7 1.7 1.7 1.7	0.45 0.02 0.02 0.03 0.03 0.02 0.02	8 9 5 7 7 7 7 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0	37.3 17.7 17.0 17.0 4 * * * * * * * * * * * * * * * * * * *	111.8 72.7 56.2 19.1 10.3 3.8 1.0 2.0
Total		6.66	1.16	8*66	100.0	299.7

* Sum of relative frequency, relative density, and relative dominance.

** Value less than 0.1.

*** Other species present listed in order of decreasing importance values: Deciduous Holly, Swamp Privet.

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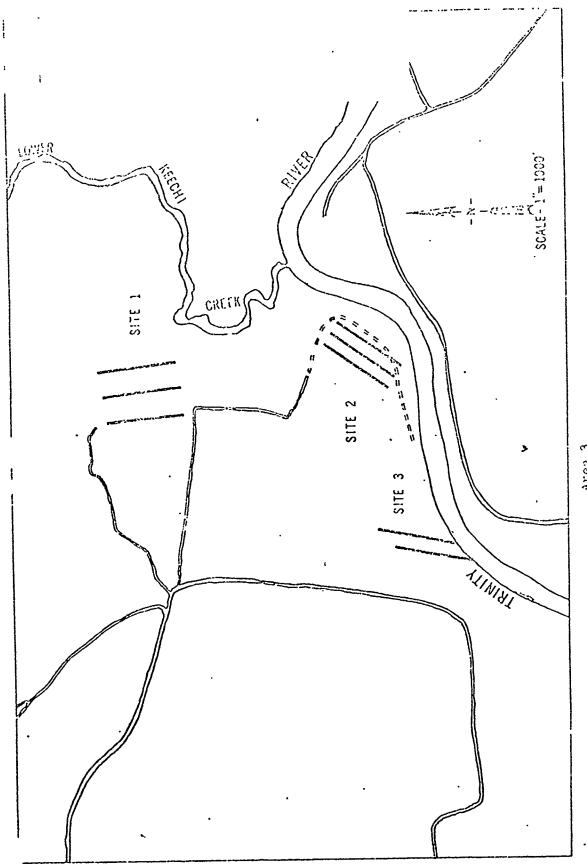
Size classes (dbh) of plant species located at Site 3, Area 2. Appendix B-1

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Species				,	Size	Size Classes (cm)	(cm)			
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81 - 90	>30
Texas Sugarberry Cedar Elm Green Ash Gum Bumelia Bur Oak Hawthorn spp. Honey Locust Red Mulberry Osage Orange Soap Berry Others*	2000 08HHH0	21 15 11 11 12 13 14 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	27 12 6 1 1	10 13 1	e e	7				
Total	34	95	67	25	ĸ	62				

* See previous page for a list of other species present.



Area 3 2, and 3 and the position of transects within Showing sites 1, Appendix B-1 these sites.

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Frequency, density and dominance data for plant species located in Site 1, Area 3 Appendix B-1

Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density %	Relative Dom'nance	Importance Value*
American Beautyberry Post Oak Black Hickory Sweetgum Black Walnut Farkleberry Redbud Forestiera Winged Elm Southern Red Oak Others**	84.0 14.7 13.7 15.0 15.0 17.3 10.7	11. 4.1.2.2.2.2.4.4.2.2.2.2.2.2.2.2.2.2.2.2.	2.41 0.18 0.15 0.17 0.29 0.20 0.20 0.11	84 84 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.9 12.7 12.5 6.9 6.9 1.5 2.0 4.6 4.6	81.5 20.8 1.8.5 1.3.0 11.6 69.4 4.6
Total	1 1 2 1	8.66	66*4	100.1	100.1	300.0

* Sum of relative frequency, relative density, and relative dominance.

White Ash, Indian Cherry, Blackjack Oak, Sassafras, Texas Sugarberry, Elm spp. (includes American Elm and Slippery Elm), Gum Bumelia, American Basswood, (Carolina Basswood and Florida Basswood), Bitternut Hickory, Deciduous Holly, Tupelo, Green Ash, Yaupen, Red Mulberry, Water Oak, Sycamore, Wax Myrtle, Pasture Haw, Hawthorn spp., Hercules Club, Parsley Hawthorn, Persimmon. ** Other species present listed in order of decreasing importance value: Flowcring Dogwood, Cedar Elm,

Size classes (dbh) of plant species located at Site 1, Area 3. Appendix B-1

Species	1-10	11-20	21-30	31-40	Size 41-50	Size Classes	(cm) 61-70	71-80	81-90	064
American Beautyberry Post Oak Black Hickory Sweetgum Black Walnut Farkleberry Redbud Forestiera Winged Elm Southern Red Oak Others*	722 10 16 21 21 87 69 65 54 27 198	11 90 90 90 90 90 90 90 90 90 90 90 90 90	168	19 20 19 8	H H 21H	1 2				
Total	1305	26	20	39	w ·	m			ł	

^{*} See previous page for a list of other species present.

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Frequency, density and dominance data for plant species located in Site 2, Area 3 B-1 Appendix

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Species	Frequency %	Relative Frequency`	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Cedar Elm	23.0	29.2	0.30	22.1	60,5	111.8
Deciduous Holly	21.3	27.1	0.50	37.0	3.2	67.3
Willow Oak	2.3	3.0	0.02	1.7	13,3	18.0
Honey Locust	5.7	7.2	0.10	7.6	2.3	17.1
Hawthorn spp.	7.3	6.3	0.08	6.1	1.5	16.9
Forestiera	2.3	3.0	0.18	13.0	8.0	16.8
Overcup Oak	2.7	3,4	0.03	2.0	0.9	11.4
Green Ash	3.0	3.8	0.03	2.5	4.1	10.4
Texas Sugarberry	2.3	3.0	0.02	1.7	3.1	7.8
Water Locust	2.3	3.0	0.02	1.7	2.5	7.2
Others**		7.9	0.07	9* 7	2.7	15.2
Total	E 2 2 1	6.66	1.35	100.0	100.0	259.9

* Sum of relative frequency, relative density, and relative dominance.

** Other species present listed in order of decreasing importance values: Gum Bumelia, Persimmon, Pecan, Eve's Necklace, Water Elm, Pasture Haw, Palmetto, not included in column totals, had a density of 0.01 individuals per plot. :

Size classes (dbh) of plant species located at Site 2, Area 3. Appendix B-1.

Species	1-10	11-20	21-30	31-40	Size 41-50	Size Classes (cm)	(cm) 61-70	71-80	81-90	³⁶ ^
Cedar Elm Deciduous Holly Willow Oak Honey Locust Ilawthorn spp. Forestiera Overcup Oak Green Ash Texas Sugarberry Water Locust Others*	11 151 26 20 53 53 4 4	10 2 2 1	22 11121	29 3 1 1 1	E 1 1	7	 4			
Total	291	26	5 7	39	īv	2	1		i I	

* See previous page for a list of other species present.

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Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Texas Sugarberry Cedar Elm Pecan Forestiera Deciduous Holly Green Ash Water Locust Hawthorn spp. Honey Locust Gum Bumelia	30.5 18.5 7.5 7.0 7.0 4.0	31.0 18.8 5.6 7.6 15.7 4.1 7.1 2.5	0.61 0.29 0.07 0.23 0.04 0.05 0.05 0.05	33.3 15.8 3.8 21.3 2.2 4.1 2.5 1.9	17.7 33.2 25.3 2.1 2.1 11.0 3.5 0.6 0.6	82.0 67.8 34.7 32.0 30.1 17.3 7.2 7.2 4.4
Total		100.0	1.87	100.0	100.0	300.0

Sum of relative frequency, relative density, and relative dominance.

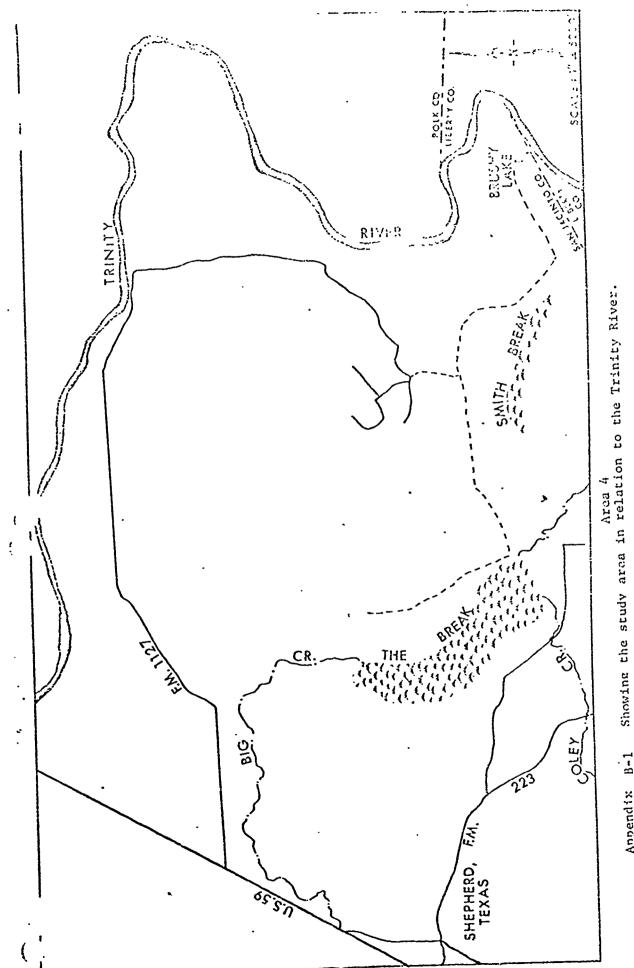
** Other species present listed in order of decreasing importance values: Elm spp. (includes American Elm and Slippery Elm), Eve's Necklace, Box Elder, Farkleberry.

Appendix B-1 Size classes (dbh) of plant species located at Site 3, Area 3.

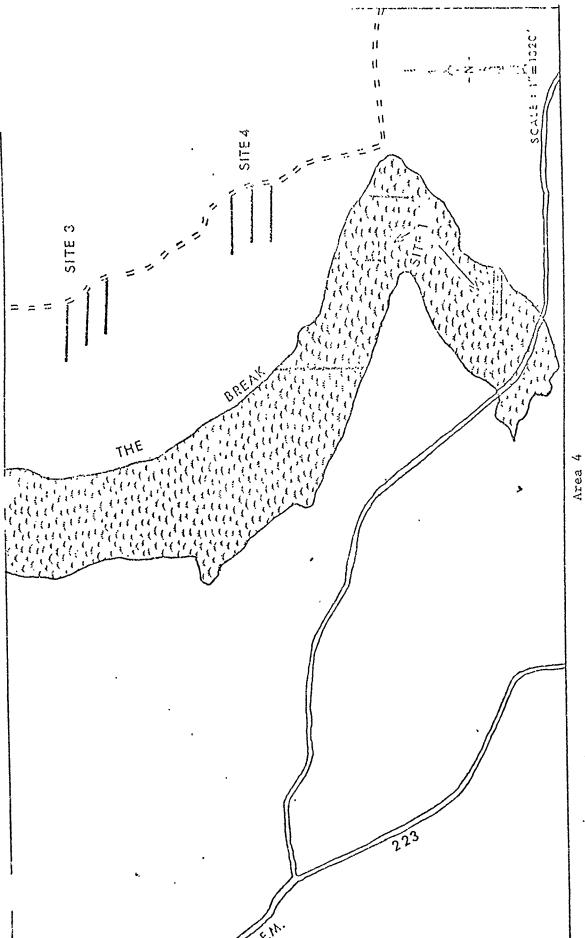
Species					Size	Size Classes (cm)	(cm)			
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	06 ^
Texas Sugarberry Cedar Elm Pocan	97 26 7	17 8 3	ოთ	4, 13	- 70	***			2	
rorestrera Deciduous Holly Groon Ash Water Locust	4 1000	+ 40,	Ħ	H	И	H				
Hawthorn spp. Honey Locust Gum Bumelia Others*	യസനയ	- 6 6	4		н					
Total	280	40	17	19	9	6 1	; ;===================================	***************************************	. 2	
						*****			ı	

*See previous page for a list of other species present.

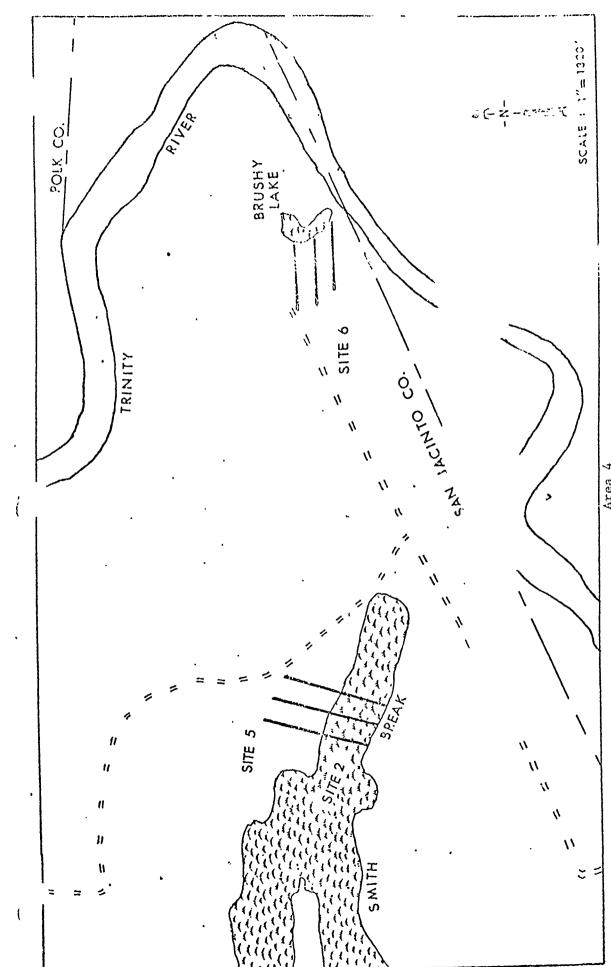
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Appendix B-1



and the position of transects within these sites. 4 and ຕົ Showing sites 1, Appendix B-1



Area 4 Showing sites 2, 5, and 6 and the position of transects within these sites. Appendix B-1

Frequency, density and dominance data for plant species located in Site 1 (The Break). Appendix B-1

Species	Erequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relatina Dominance	Importance Value*
Tupelo Bald Cypress Carolina Ash Tassel-white Red Maple Water Elm Sweetgum Green Ash Water Hickory Overcup Oak	81.3 34.9 31.3 15.1 10.0 3.5 3.6	36.7 15.8 10.9 6.8 6.8 11.9 4.5 9	2.43 0.51 0.53 0.61 0.38 0.04 0.06 0.06	49.6 10.3 12.3 7.7 7.7 1.2 0.9	72.6 0.0 0.0 0.0 0.1 0.2 1.2	158.9 20.1 23.5 153.5 7.0 7.0
Total	8 8 8	100.1	4.97	9*66	100.1	299.8

Sum of relative frequency, relative density, and relative dominance.

^{**} Other species present listed in order of decreasing importance values: Elm spp. (Includes American Elm and Slippery Elm), Mock Orange, Common Buttonbush, Texas Sugarberry, Willow Oak, Dogwood, Persimmon, Overcup Oak, American Beautyberry, Blue Beech, Water Locust, Deciduous Holly, American Holly, Yaupon, Water Oak, Shumard Oak, Cedar Elm. Palmetto, not included in column totals, had a density of 0.07 individuals per plot.

Size classes (dbh) of plant species located at Site 1 (The Break). Appendix B-1

00000					Size	Classes (cm)	(cm)			
מברזשלת	1-10	11-20	11-20 21-30	31-40	41-50	51-60	61-70	71-80	81-90	06 <
Tupelo Bald Cypress Carolina Ash Tassel-white Red Maple Water Elm Sweetgum Green Ash Water Hickory Overcup Oak Others*	679 83 283 333 188 66 12 33 31 18	318 63 7 12 22 23 33	122 41 6 1 4	74 28 2 2 1	54 24 2	34 16 2	12	4 <u>1</u> 9	VOPI	19 1
Total	1787	415	174	109	80	52	31	23	7	20

ise previous page for a list of other species present.

Frequency, density and dominance data for plant species located in Site 2 (Smith Break). Area 4 Appendix B-1

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Tupelo Bald Cypress Water Elm Common Buttonbush Green Ash Rattlebush Forestiera Water Locust Overcup Oak	20.3 25.3 16.9 5.0 4.7 0.3	19.4 24.2 24.2 16.1 4.8 4.5 3.6 0.3	0.32 0.32 0.38 0.28 0.05 0.07 0.03 ***	21.0 20.6 24.9 18.6 3.9 4.3 4.3 0.2	70.9 26.7 1.3 0.3 0.3 **	111.3 71.5 51.0 35.0 8.9 8.2 4.3 0.5
Total	1	100.1	1.53	100.0	6.96	300.0

Sum of relative frequency, relative density, and relative dominance.

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^{**} Value less than 0.1

^{*:*} Value less than 0.01.

Size classes (dbh) of plant species located in Site 2 (Smith Break), Area 4. Appendix B-1

Species					Size	Size Classes (cm)	(cm)			
•	1-10	11-20	21-30	31-40	41-50	41-50 51-60	61-70	71-80	81-90	06 <
Tupelo Bald Cypress Water Elm Common Buttonbush Green Ash Rattlebush Forestiera Wnter Locust Overcup Oak	6 8 108 91 13 21 21 21 1	10 14 13 6	27 1 1	11 18	10	11	17.	σ . π	ιΛ	16 2
Total	278	43	39	29	22	21	23	12	ی	18

Frequency, density and dominance data for plant species located in a palmetto area about one-half mile east of The Break (Site 3), Area 4 Appendix B-1

Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density %	Relative Dominance	Importance Value*	
Water Oak Sweetgum Southern Red Oak Deciduous Holly Texas Sugarberry Pecan Snowd.op-tree Honeyocust Winged Elm Elm spp.**	12.0 13.3 11.3 17.3 13.7 14.3 12.7 7.0	3,50 2,0 3,0 3,0 3,0 3,0 3,0	0.13 0.18 0.17 0.22 0.17 0.15 0.15 0.07	27 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	21.6 16.4 11.3 1.0 7.9 4.7 0.6 2.9 2.7 7.4	33.0 30.4 22.6 18.7 17.8 15.9 14.7 14.0	
Total	2 3 5 1	100.2	2.46	6.66	100.2	300.3	

Sum of relative frequency, relative density, and relative dominance.

* Includes American Elm and Slippery Elm.

Beautyberry, Black Oal, Yampon, Blue Beech, American Holly, Southern Arrow-wood, Groen Ash, American Elder, Persimmon, Havidorn Spp., Dogwood, Red Mulberry, Tupelo, Red Maple, Pasture Haw, Parsley Hawthorn, Redbus, O'possum-wood, Bitternut Hickory, Devil's Walking Stick, Gum Bumelia, White Ash, Nixican Plum, Overcup Oak, Shumard Oak, Cadar Elm, Hercules Club. Palmetto, not included in column totals had a density of 4.76 individuals per plot and a frequency of 81.7%. *** Other species present listed in decreasing order of importance values: Chestnut Oak, American

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Size classes (dbh) of plant species located in a palmetto area about one-half mile east of the Break (Site 3), Area 4. Appendix B-1

					Size	Size Classes (cm)	(cm)			
Species	1-10	11-20	21-30	31-40 41-50	41-50	51-60 61-70	61-70	71-80	81-90 > 90	06 ^
Water Oak Sweetgum Southern Red Oak Deciduous Holly Texas Sugarberry Pecan Snowdrop-tree Honey Locust Winged Elm Elm spp.* Others**	21 21 22 66 25 24 24 58 31 31 13	6 11 11 6 6 13 12 12	11 13 3 7 7 14	670 0H 0 104	77	1 7 1	e	1 3	7 1	
Total	551	92	746	28	7	ហ	ς	7	ന	

t Includes American Elm and Slippery Elm.

** See previous page for a list of other species present.

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s of 1 Summary of Arequeuxy, density, and domination date for plant species located in Sites 1 and 2 (The Break and Smith Break). Appendix v. 1

Species	Frequency %	Relative Frequency %	Density No./Plot	kelative Density %	Relative Dominance %	Importance Value*
Tupelo Bald Cypress Carolina Ash Tassel-white Water Elm Red Maple Common Buttonbush Green Ash Sweetgum Overcup Oak	588 11.4 11.4 11.5.9 12.2 2.2 2.4	32.9 11.23.93.93.93.94.9	1.66 0.44 0.33 0.22 0.24 0.01 0.03 0.03	45.2 11.9 10.4 6.0 6.0 6.5 0.8 0.7	72.1 24.8 4.4.8 0.6 0.0 0.1 0.3	150.2 54.3 20.6 19.0 15.4 7.1 7.1 2.2 2.2
Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100.2	3.65	99.7	6.66	299.8

Sum of relative frequency, relative density, and relative dominance.

** Value less than 0.1%

" Ther species present 15 test in order or decreasing important wither Briter Hickory, Ruttlebush, Swing Pilit, Thispp. Chullide Abritan Eliand Stippery Ele, withing Fourt, Texes Signiberry, William, Winesholf, Southern Piderk, Persi non, hardran Pierry, Blue Beech, Perfabous Bolly, American Holly, Yaupon, Water Oak, Shumard Dak, and Ceder Elm. Palmetto, not included in column totals, had a density of 0.05 individuals per plot.

Frequency, density and dominance data for plant species located east of the southern end of The Break (Site 4). Appendix B-1

	; ; ;	
Importance Value*	55.0 51.2 30.4 25.8 24.7 21.0 19.5 14.8 12.2 41.1	299.7
Relative Dominance %	2.7 27.3 1.3 4.3 18.8 12.8 12.0 9.8	8*66
Relative Density %	30.5 10.4 15.1 13.1 2.5 3.3 9.8 1.1 0.9	100.0
Density No./Plot	1.22 0.42 0.60 0.52 0.10 0.13 0.39 0.04 0.04	4.00
Relative Frequency	21.8 13.5 14.0 12.4 3.4 4.9 8.7 1.7 1.5 18.0	6*66
Frequency %	51.7 32.0 33.3 29.3 8.0 11.7 20.7 4.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Species	Hawthorn spp. Cedar Elm Deciduous Holly Honey Locust Willow Oak Texas Sugarberry Persimmon Black Oak Overcup Oak	Total

Sum of relative frequency, relative density, and relative dominance.

** Other species present listed in order of decreasing importance values: Water Hickory, Yaupen, Elm 3pp.
(Includes American Elm and Slippery Elm), Red Mulberry, Pasture Haw, Water Oak, Sweetgum, Snow-drop tree, Pecan, Parsley Hawthorn, Red Maple, Gum Bumelia, Blue Becch, Soap Berry, Bitter Orange, Bald Cypress, Loblolly Pine, and Southern Red Oak. Palmetto, not included in column totals, had a density of 1.74 individuals per plot. THE PROPERTY OF THE PROPERTY O

Appendix 8-1 ' Sammary of Frequency, density, and dominance data for plant species located in Sites 3, 4, 5, and 6 (land areas associated with The Break, Smith Break, and Brushy Lake).

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value∺	
Hawthorn spp. Cedar Elm Honey Locust Willow Oak Deciduous : 11y Texas Sugarberry Water Oak Southern Red Oak Green Ash Winged Elm	27.0 20.6 21.5 5.8 17.0 10.8 6.0 5.2	14.1 11.3 11.3 3.0 3.1 3.3 3.3 3.3	0.56 0.29 0.34 0.06 0.06 0.06 0.06 0.06	20.3 10.3 12.2 2.3 4.6 2.3 30.0	1.2 13.4 2.9 14.7 0.9 8.9 11.1 10.3 4.4	35.6 34.5 26.4 20.0 19.3 16.5 15.1 9.7 9.5	
Total	! ! !	99.5	2.76	9.66	5.66	298.6	

Sum of relative frequency, relative density, and relative dominance.

American Holly, American Elder, Southern Arrow-wood, Dogwood, White Ash, American Basswood, Red Maple, Tupelo, Water Elm, Water Locust, Gum Bumelia, Common Buttonbush, Hercules Club, Redbud, O'possum-wood, Bald Cypress, Snow-drop tree, Yaupon, Parsley Hawthorn, American Beautyberry, Blue Becch, Bottomland Post Oak, Red Mulberry, ** Other species present listed in order of decreasing importance values: Persimmen, Black Oak, Overcup Oak, Sweetgun, Elm spp. (includes American Elm, Slippery Elm), Pecan, Pasture Haw, Water Hickory, Chestnut Ock, Soap Berry, Devil's Walking Stick, Bitternut Hickory, Bitter Orange, Swamp Privet, Loblolly Pine, Mexican Palmetto, not included in column totals, had a density of 1.33 Plum, Shumard Oak, and Rattlebush. individuals per plot. CONTRACTION OF THE SECOND CONTRACTOR OF THE PROPERTY OF THE PR

Size classes (dbh) of plant species located east of the southern end of The Break (Site 4). Appendix B-1

Species	1-10	11-20	21-30	31-40	Size 41.50	Size Classes (cm)	(cm) 61-70	71-80	81-90	06<	
Hawthorn spp. Cedar Elm Deciduous Holly Honey Locust Willow Oak Texas Sugarberry Persimmon Black Oak Green Ash Overcup Oak	364 44 181 141 20 16 117 117 2 108	40 11 11 11 11	25 1 18 2	16 11 13 33	22 2 2	4 6 6	2 4	.			
Total	1031	799	87	34	ω	10	e	. 1			1 1

^{*} See previous page for a list of other species present.

Appendix $^{\rm B-1}$. Frequency, density and dominance data for plant species located at Site 5 adjacent to and north of Smith Break,

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*	
Cedar Elm Willow Oak Havthorn spp. Honey Locust Overcup Oak Texas Sugarberry Deciduous Holly Water Hickory Green Ash Persimmen	26.3 25.0 20.0 6.7 9.3 6.7 5.0	18.5 17.6 14.1 4.7 6.8 6.8 3.1	0.36 0.14 0.14 0.32 0.08 0.10 0.01 0.07 0.05 0.06	18.7 7.2 7.2 16.6 5.9 8.5 9.5 9.6	23.8 41.3 11.2 11.4 6.7 7.0 7.5 7.3	60.8 58.4 42.4 33.5 20.0 16.3 10.9 9.9 6.5	
	2 2 6	99.8	1.95	99.8	100,1	299,7	1

* Sum of relative frequency, relative density, and relative dominance.

** Other species present listed in decreasing order of importance values: Parsley Hawthorn, Southern Red Oak, Pecan, Water Locust, Water Oak, Elm spp. (includes American Elm and Slippery Elm), Red Mulberry, Winged Elm, Pasture H.w., Sweetgum, Chestnut Oak, Swamp Privet, Water Elm, and Rattlebush.

Appendix R-1 Size classes (dbh) of plant species located at Site 5 adjacent to and north of Smith Break.

Species .					Size	Size Classes (cm)	(cm)			
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	06 ^
Cedar Elm	50	22	23	10	<u>ب</u>					
Willow Oak		ī,	6	14	ന	9	ო	~ 1		
Hawthorn spp.	135	¢ 7								
Honey Locust	87	7	7	-1						
Overcup Oak	7	11	က	4	,	Н	, -1			
Texas Sugarberry	13	9	10							
Deciduous Holly	38									
Water Hickory	6	11	, -1							
Green Ash	9	ო	2	7		-1				
Persimmon	16	H								
Others*	41	10	H	7	ო					
notes	398	78	52	33	01	80	7	,		
				}		•		ı		

^{*} See previous page for a list of other species present.

Frequency, density and dominance data for plant species located at Site 6 near the Trinity River west of Brushy Lake. Appendix B-1

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*	
Hawthorn spp. Southern Red Oak Cedar Elm Water Oak Honey Locust Winged Elm Texas Sugarberry Pascure Haw Black Oak Deciduous Holly	27.0 8.0 8.0 23.7 9.7 24.0 16.7 12.3 15.7 7.7	14.4 4.3 12.6 8.9 8.9 8.3 4.1 20.9	0.50 0.09 0.36 0.35 0.35 0.14 0.06 0.10	19.2 13.3 13.5 9.9 8.3 17.0	0.7 24.3 19.3 1.6 1.6 0.2 0.2 28.0	34.3 31.9 30.8 27.9 23.3 10.7 65.9	
Total	8 8 8	100.2	2.62	100.0	100.0	300.2	

Sum of relative frequency, relative density, and relative dominance.

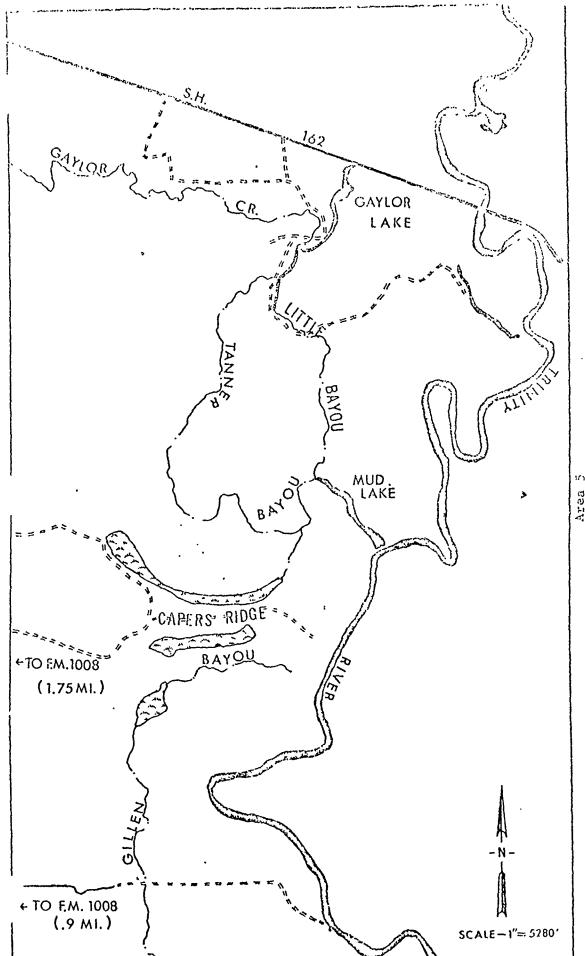
** Other species present listed in decreasing crder of importance values: Bottomland Post Oak, Green Ash, Elm spp. (includes American Elm and Slippery Elm), Chestnut Oak, Parsley Hawthorn, Overcup Oak, White Ash, American Basswood (includes Carolina Basswood and Florida Basswood), Willow Oak, Water Elm, Common Buttonbush, Hercules Club, Gum Bumelia, Sweetgum, Dogwood, Persimmon, Pecan, Water Hickory, Red Mulberry and Yaupon. A CONTROL OF THE CONT

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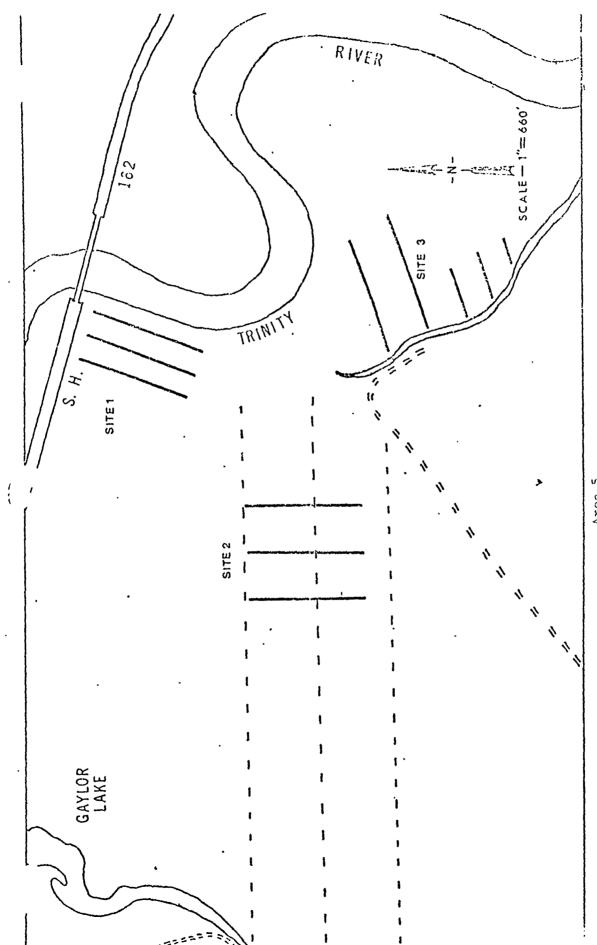
Size classes (dbh) of plant species located at Site 6 near the Trinity River west of Brushy Lake. Appendix B-1

Species					Size	Size Classes (cm)	(cm)			
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90 > 90	06 <
Hawthorn spp. Southern Red Oak Cedar Elm Water Oak Honey Locust Winged Elm Texas Sugarberry Pasture Haw Black Oak Deciduous Holly	150 1 91 99 52 6 65 65	1 4 10 3 6 6 25 16 4 4	2 6 11 1 1 16 8 8	3 7 7 8	9 8 1 4	ო ი	1	7		
Total	556	97	76	30	19	5	1	2		

^{*} See previous page for a list of other species present.

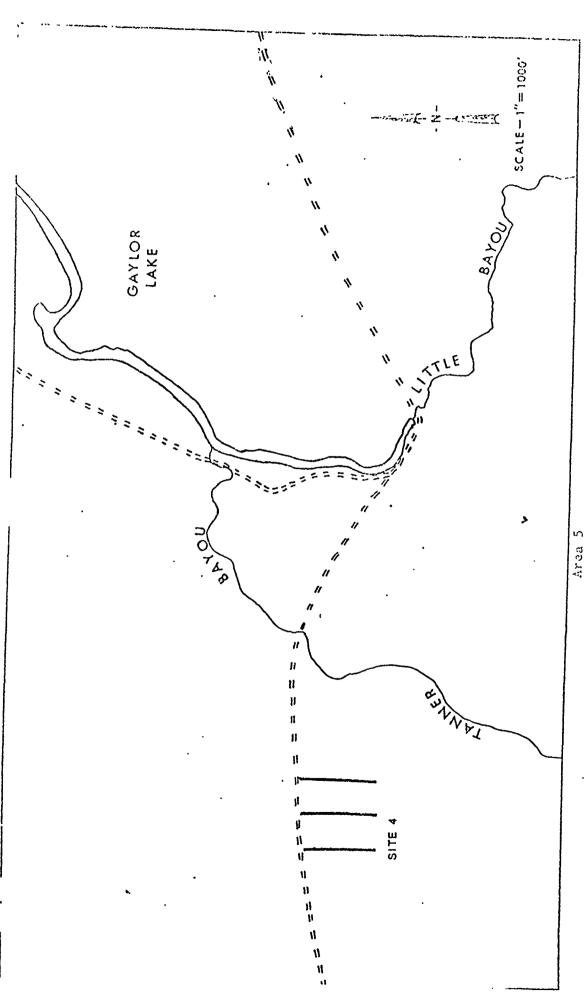


Showing the study area in relation to the Trinicy River Appendix B-1

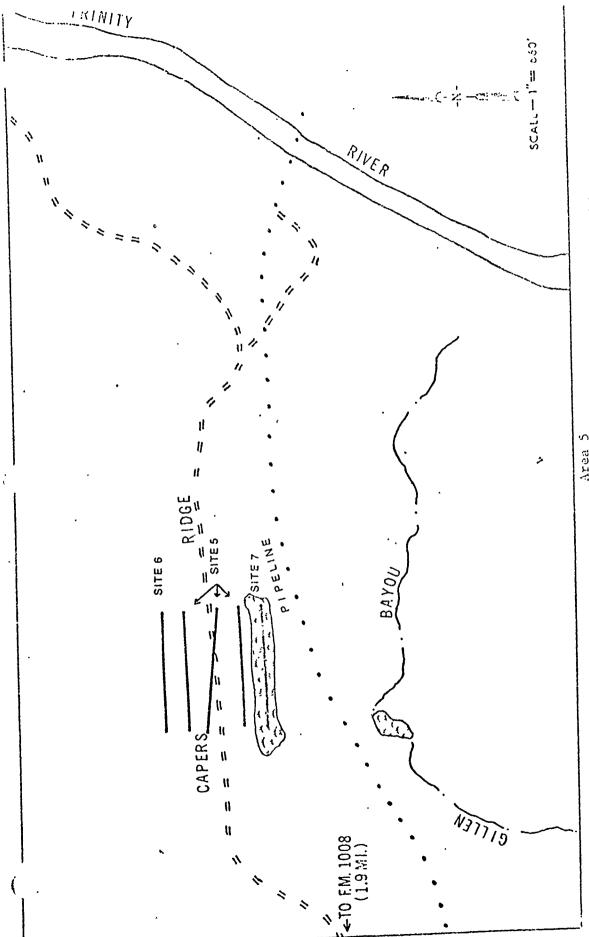


Area 5 Showing sire; 1, 2, and 3 and the position of transects within Appandix B-1 trese sites.

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Showing site 4 and position of transects within that site. Appendix B-1



Area 5 6, and 7 and the position of transects within Showing sites 5, Appendix B-1 these cires.

Frequency, density and dominance data for plant species located in the Tanner Bayou area near Highway 162, Site 1. Area 5 Appendix B-1

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*	
Texas Sugarberry Pecan Dogwood Swamp Privet Water Elm Sweetgum Deciduous Holly Hawthorn spp. Cedar Elm Sycamore Others**	35.3 26.3 15.0 12.0 7.7 6.0 10.7 10.0	21.9 16.4 7.5 7.5 4.8 6.6 6.8 1.7	0.53 0.32 0.32 0.27 0.31 0.19 0.15 0.03	19.7 11.1 10.2 11.5 3.5 7.1 5.5 1.2 6.1	22.2 34.2 2.4 2.0 2.0 1.0 1.5 1.5	63.8 62.5 22.8 20.8 18.3 16.7 12.8 11.7	
Total	!	100.0	2.67	95.4	6.66	299.3	

Sum of relative frequency, relative density and relative dominance.

** Other species present listed in order of decreasing importance value: Green Ash, Elm spp. (includes American Elm and Slippery Elm), American Elder, Box Elc.r, Persimmon, Black Oak, Honey Locust, Overcup Oak, Water Oak, Southern Red Oak, Winged Elm, Bald Cypress, Common Buttonbush, American Basswood (may include Carolina Basswood and Florida Basswood), American Hophornbeam, Gum Bumelia, and Red Mulberry.

Size classes (dbh) of plant species located in the Tanner Bayou area near Highway 162, Site 1, Area 5. Appendix B-1

Species	1-10	11-20	21-30	31-40	Size 41-50	Size Classes (cm)	(cm) 61~70	71-80	71-80 81-90	06 🔨
Texas Sugarberry Pecan Dogwood Swamp Privet Water Elm Sweetgum Deciduous Holly Hawthorn spp.	29 73 73 84 84 32	138 138 137 147 147	33 25 1 11 2	, 3 20 20	10 10 7	0 0				
Sycamore Others*	80	13	6	4 m	m 4	1	7 7	1		
Total	481	179	74	38	20	5	က	-		

^{*} See previous page for a list of other species present.

3-1 Frequency, density and dominance data for plant specius located in the Tanner Bayou area near Highway 162, Site 2, Area 5 Appendix B-1

Species	Frequency %	Relativo Frequency %	Density No./Plot	Rolative Density , %	Relative Dominance %	, Importance Value*	
Cedar Elm Texas Sugarberry Water Oak Winged Elm Deciduous Holly Bottomland Post Oak Hawthorn spp. Southern Red Oak Honey Locust Parsley Hawthorn Others**	55.7 40.3 23.7 36.7 32.7 13.7 12.0 19.0	15.0 10.8 6.4 3.7 5.9 5.9 5.4	1.28 0.76 0.34 0.60 0.22 0.50 0.18 0.37 1.64	18.8 11.1 5.0 5.0 3.3 4.7 7.4 23.8	8.2 18.3 23.8 23.8 2.0 9.6 0.7 0.5 0.5	42.0 40.2 35.2 23.7 16.6 11.6 11.6	
Total	! ! !	8.66	6.81	6.66	8.66	299.5	

Sum of relative frequency, relative density and relative dominance.

** Other species present listed in order of decreasing importance value: Glant Cane, White Ash, Green Ash, Eim spp. (includes American Elm and Slippery Elm), Soap Berry, Yaupon, Gum Bumelia, Willow Oak, Overcup Oak, Pecan, Red Mulberry, Black Hickory, American Basswood (may include Carolina Basswood and Florida Basswood), and Pasture Naw.

Appendix B-1, Size classes (dbh) of plant species located in the Tanner Bayou area near

					Size	Size Classes (cm)	(cm)			
Species	1-10	11-20	21-30	31-40	41-50	51-60	61-70	61-70 71-80	81-90	06 🔨
Cedar Elm Texas Sugarberry	352 162 35	19 27 30	8 29 15	4 8 15	'n	нч				
n Holly	148 189 45	11 2 2 11	ı vı	4		ન		ᆏ		
Bottomland Post Dak Hawthorn Spp. Southern Red Oak	148 35 73	9 L v	യ ഗ	Ω τ	64					
Honey Locust Parsley Hawthorn Others**	112 423	35	18	11	4					
								-		
Total	1722	164	91	84	TT.	m		•		
				,						

** See previous page for a list of other species present.

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Frequency, density and dominance data for plant species located in the Tanner Bayou area near Highway 162, Site 3, Area 5 Appendix B-1

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Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Texas Sugarberry Sweetgum Pecan Deciduous Holly Water Oak Dogwood Bald Cypress Cedar Elm Elm Spp.** Winged Elm Others ***	33.3 17.3 15.3 10.0 10.0 8.7 9.0	16.8 13.8 8.7 3.0 5.0 5.2 4.4 4.5	0.44 0.47 0.22 0.33 0.19 0.12 0.11 0.13	15.5 16.5 11.8 2.1 6.7 4.0 4.5	24.6 16.8 13.7 0.8 12.6 1.1 7.4 1.5 19.8	56.9 47.1 30.1 25.4 17.7 10.3 9.9 9.8 68.3
Total	t 1	100.0	2.82	100.0	100.1	300.1

^{*} Sum of relative frequency, relative density and relative dominance.

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^{*&#}x27; Includes American Elm and Slippery Elm.

[.] Stack Oak, Persimmon, Common Buttonbush, Giart Cane, American Holly, Overcup Oak, American Basswood (may de Carolina Basswood and Florida Basswood), Water Hickory, Southern Red Oak, White Ash, Red Mulberry, Harlia, Bottomland Post Oak, Water Locust, Box Elder, Chestnut Oak, Black Willow, Water Locust, Swamp oft, Tupelo, Hercules Club, Pasture Haw, American Beautyberry, and American Elder. * Other species present listed in order of decreasing importance values: Hawthorn spp., Green Ash, Water

Size classes (dbh) of plant species located in the Tanner Bayou area near Highway 162, Site 3, Area 5. Appendix B-1

Species	1-10	11-20	21-30	31-40	Size (. Size Classes (cm)	(cm) 61-70	71-80	81-90	06<
Texas Sugarberry Sweetgum Pecan Deciduous Holly Water Oak Dogwood Bald Cypress Cedar Elm Elm spp.* Winged Elm	49 67 21 100 9 52 34 33 32 156	38 36 22 22 22 22 25	34 26 10 2 3 3 14	11 9 6 1 1 5 5	22 11 52	3 1 2 1 2 3	r-1		7	
Total	558	134	06	4.2	20	11	1		2	

* Includes American Elm and Slippory Elm.

at See previous page for a list of other species present.

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· Frequency, density and dominance data for plant species located in the Tanner Bayou area near Highway 162, Site 4, Area 5. Appendix B-1

9 0		
Importance Value*	43.0 32.4 24.9 24.9 16.0 14.3 11.9 11.9 11.9	300.1
Relative Dominance	10.7 17.7 17.7 1.3 18.6 3.7 0.2 0.2 0.6 5.9	100.1
Rolative Density %	18.7 6.7 14.4 0.9 6.2 7.0 7.2 2.4 6.0	100.0
Density No./Plot	1.61 0.57 1.24 0.07 0.54 0.62 0.21 0.21 0.08	8.61
Relative Frequency	13.6 8.0 9.2 1.4 6.1 7.1 5.1 3.6 1.7	100.0
Frequency %	59.0 34.7 40.0 6.0 26.3 31.0 22.3 15.7 7.3	E 8
Species	Blue Beech Sweetgum Yaupon Southern Magnolia American Hophornbeam American Beautyberry Gedar Elm Southern Red Oak Texas Sugarberry Chestnut Oak	Total

Sum of relative frequency, relative density, and relative dominance.

** Other species present listed in order of decreasing importance values: Winged Elm, Water Oak, Loblolly Pine, Glant Cane, Hawthorn spp., American Elder, Deciduous Holly, Black Walnut, Elm spp. (Includes American Elm and Slippery Elm), Green Ash, American Holly, White Ash, Sassafras, Parsley Haw, Water Hickory, Red Broscod), Tupélo, Flowering Dogwood, Persimmon, Mockernur Hickory, Overcup Oak, Willow Cak, Hercules Club, talberry, Honey Locust, Black Oak, White Oak, American Basswood (may include Carolina Basswood and Florida yeamore, Borrowland Post Oak, Bald Cypress, Shining Sumac, Swamp Privet, Roughleaf Dogwood, Pecan, Red Layle and Sweetleaf.

Size classes (dbh) of plant species located in the Tanner Bayou area west of Gaylor Lake, Site 4, Area 5. Appendix B-1

Species	1-10	11-20	21-30	31-40	Size (41-50	Size Classes (cm) 1-50 51-60 61	(cm) 61-70	71-80	81-90	06 <
Blue Beech Sweetgum Yaupon Southern Magnolia American Hophornbeam American Beautyberry Cedar Elm Southern Red Oak Texas Sugarberry Chestnut Oak	426 109 351 351 136 180 182 48 154 18	34 28 19 4 7	21 18 7 7 5 5 14	10 13 11 12	7 2 2 19	0 0 00	2 44	-1	·	
Jotal	2334	115	67	28	21	17	S	pri	H	

** See previous page for a list of other species present.

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Frequency, density and dominance data for plant species located on Capers Ridge, Site $\mathbf{5}_{\mathbf{j}}$ Area 5. Appendix B-1

Species	Frequency $\%$	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance	Importance Value*	
Yaupon Sweetgum Giant Cane Texas Sugarberry Wingcd Elm Water Oak American Beautyberry Black Walnut: Elm spp.** Devil's Walking Stick	66.0 34.3 24.0 47.3 42.3 22.0 43.3 10.0 14.7	14.1 7.3 7.3 9.0 9.0 2.1 6.3 30.7	2.32 0.63 0.63 0.89 0.34 0.12 0.25 0.39	20.6 5.6 22.1 7.9 7.9 7.6 1.1 1.1 18.6	9.1 28.9 1.0 10.4 0.4 1.6 30.2	43.8 41.8 28.2 26.8 1.9.4 17.2 9.1 7.9	
Total	E	7.66	11.22	100.0	100.2	299.9	

Sum of relative frequency, relative density, and relative dominance.

*** Other species present listed in order of decreasing importance values: White Ash, American Elder, American Holly, Gum Bumelia, Southern Red Oak, American Basswood (may include Carolina Basswood and Florida Basswood), Black Oak, Chestnut Oak, Sycamore, Red Mulberry, Southern Magnolia, Honey Locust, Laurel Cherry, Deciduous Holly, Flowering Dogwood, Cedar Elm, Bottomland Post Oak, Tupelo, Rcd Bay, Persimmon, Green Ash, Pecan, Hawthorn spp., Sassafras, Water Hickory, Black Cherry, Pasture Haw, Mexican Plum, Shining Sumac, Chinaberry and Fringe-tree. THE PROPERTY OF THE PROPERTY O

^{**} Includes American 51m and Slippery Elm.

Size classes (dbh) of plant species located on Capers Ridge, Site 5, Area 5. Appendix B-1 .

Species			;		Size	Size Classes (cm)	(CEI)	00	00 10	00
	1-10	11-20	21-30	31-40	41-50	00-10	0/-10	00-1/	06-70	8
Yampon	687	6								
Sweetgum	111	45	11	11	7	7	2			
Giant Cane Towns Sugartherry	252	m	7	2	ന	Н				
leads SugarDerry Winged Elm	258	, m	ന	H						
Water Oak	70	18	S	ស	7		, →			
American Beautyberry	256		,	•	•					
Black Walnut	16	۲,	10	~ ~	-					
Elm spp.*	69	4		7				•		
Devil's Walking Stick	113	ო		ı	•	•	•			
Others**	538	53	22		4	4	-1			
Total	3115	145	53	33	17		4			

* Includes American Elm and Slippery Elm. ** See previous page for a list of other species present.

-1 Frequency, density and dominance data for plant species located in a bottomland area north of Capers Ridge, Site 6, Area 5. Appendix B-1

Species	Frequency %	Relative Frequency %	Density . No./Plot	Relative Density %	Relative Dominance %	Importance Value*	
Overcup Oak Green Ash Hawthorn spp. Water Hickory Deciduous Holly Cedar Elm Water Locust Black Oak Common Buttonbush Persimmon Others**	40.0 44.0 44.0 46.0 21.0 29.0 13.0 18.0 22.0	10.2 11.2 11.7 12.5 7.4 3.3 4.6 5.6	0.54 1.27 1.27 0.24 0.94 0.34 0.37 1.24	7.2 16.8 16.8 12.5 12.5 4.5 16.2	26.1 11.4 4.1 22.4 1.5 7.2 7.2 5.9 3.3	43.5 39.4 32.6 31.0 26.5 19.8 14.1 13.9 51.0	
Tota1	1 8 8 1	100.4	7.54	7.66	100.2	300.3	

Sum of relative frequency, relative density, and relative dominance. ×

** Other species present listed in order of decreasing importance values: Texas Sugarberry, Water Elm, Bastard Indigo, Elm spp. (includes American Elm and Slippery Elm), Bald Cypress, Honey Locust, Willow Oak, Swamp Privet, Loblolly Pine, Sweetgum, Winged Elm, Gum Bumelia, and Red Mulberry.

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Appendix B-1 .Size classes (dbh) of plant species located in a bottomland area north of Capers Ridge, Site 6, Area 5.

^{*} See previous pige for a list of other species present.

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Appendix B-1 Frequency, density and dominance data for plant species located in a swamp south of Capers Ridge, Site 7, Area 5.

		The second secon					
Species	Frequency $^{\prime\prime}_{ m \%}$	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance	Importance Value*	
Green Ash Overcup Oak Water Elm Bald Cypress Water Locust Black Oak Water Hickory Common Buttonbush Elm spp.**	56.0 46.0 50.0 19.0 22.0 25.0 11.0 15.0 4.0	21.0 17.2 18.7 7.1 8.2 9.4 4.1 5.6 1.5	1.42 0.73 0.84 0.20 0.26 0.34 0.12 0.17 0.05	32. 166.9 199.0 20.0 20.0 20.0 20.0 20.0	55. 1.2.1 3.3.1 6.9 6.9 7.5 0.2 1.1	109.6 46.2 41.4 22.1 21.1 19.6 14.4 9.6 6.4 6.5	
Tọtal	1	100.0	4.33	6.66	6*66	299.8	

Sum of relative frequency, relative density, and relative dominance.

** Includes American Elm and Slippery Elm.

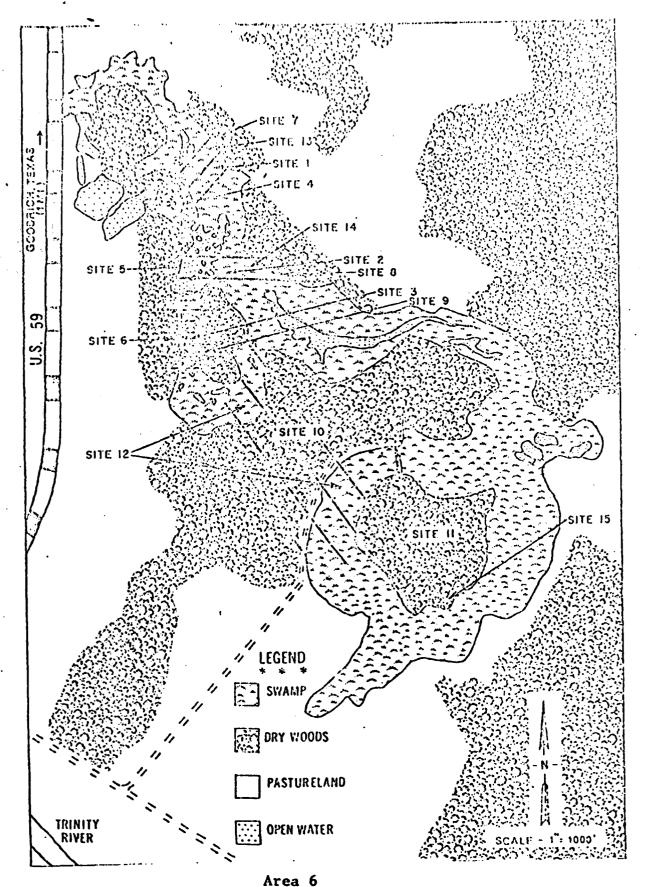
*** Other species present listed in order of decreasing importance values: Mock-orange, Sweetgum, Bastard Indigo, Deciduous Holly, Southern Red Oak, and Texas Sugarberry.

Size classes (dbh) of plant species located in a swamp south of Capers Ridge, Site $7_{\mbox{\scriptsize 3}}$ Area 5. Appendix B-1

Species	1-10	11-20	21-30	Size 31-40 41-50	Size 41-50	Size Classes (cm)	asses (cm) 51-60 61-70	71-80	81-90 >90	06 <
Green Ash Overcup Oak Water Elm Bald Cypress Water Locust Black Oak Water Hickory Common Buttonbush Elm spp.* Persimmon	118 63 80 12 13 28 28 17 11 5	00408040	80 HV H	90 0	10	1 2	Ħ	.		
Total	358	37	13	10	10	e	Т	1		

* Includes American Elm and Slippery Elm.

** See previous page for a list of other species present.



Appendix B-1. Showing study area in relation to Trinity River and U.S. Highway 59 and showing location of sites and transects within study area.

Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 1 (Nesting area of northern-most heronry).

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Buttonbush	72.6	37.3	3.78	57.1	36.4	130.8
Tupelo	15.5	8.0	.39	5.8	24.1	37.9
Green ash	25.0	12.8	.79	12.0	10.9	35.7
Water elm	23.6	14.7	.57	8.6	9.4	32.7
Rattlebush	16.1	8.3	87.	7.2	1.9	17.4
Water locust	11.9	6.1	.26	3.9	5.6	15.6
Black willow	8.4	2.4	.08	1.2	3.9	7.5
Overcup oak	2.4	1.2	.02	7.	2.7	4.3
Water, hickory	2.4	1.2	.03	7.	2.1	3.7
Forestiera	1.2	9.	.05	∞.	2.0	3.4
Others**		7.2	.18	2.7	∞.	10.7
Total		8.66	6.63	100.1	8.66	299.7

Sum or relative frequency, relative density and relative dominance

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^{**} Other species present listed in order of decreasing importance values: Elm spp. (Includes American elm, Slippery elm) Deciduous holly, Texas sugarberry, hawthorn spp., persimmon, winged elm, willow oak, Chinese tallow tree, Pasture haw, and pecan.

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 1 (Nesting area of northern-most heronry).

Species	1-10	1-10 11-20	21–30	31-40 41-50	41-50	51-60	Size Classes (cm) 61-70 71-80	sses (cm)	81-90	06	
Buttonbush	635							1			
Tupelo	37	26	2								
Green ash	124	œ	H								
Water elm	96	2									
Rattlebush	80										
Water locust	39	4			•						
Black willow	11		~								
Overcup oak	73	H	н								
Water hickory	2	ო									
Forestiera	œ	7									
Others*	59										
Total	1001	45	9								

^{&#}x27; See previous page for other species present

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Appendix B-1 Area 6. Size classes (dbh) of plant species located at Site 2 (nesting area-middle heronry).

Species			Size Classes (cm)	moj səss	~						
	1-10	1-10 11-20	21-30	31-40 41-50	41-50	5160	61-70 71-80	71-80	81-90	06	
Tupelo	36	63	25	ю							
Buttonbush	277										
Green ash	102	6									
Water elm	92	7									
Rattlebush	83										
Overcup oak	4	н									
Water locust	13	н									
Deciduous holly	18										
Hawthorn	12										
Water hickory	H	П	н			•					
Others*	16	Н									
Total	638	78	26	7							

^{*} See previous page for other species present

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Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 2 (nesting area-middle heronry).

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*	
Tupelo	22.4	16.4	0.84	17.0	69.69	103.3	
Buttonbush	42.8	31.4	1.82	37.1	8.4	9.97	
Green ash	20.4	15.0	0.73	14.9	2.9 .	36.6	
Water elm	19.1	14.0	0.51	10.5	7.5	32.0	
Rattlebush	5.3	3.9	0.55	11.1	0.3	15.3	
Overcup oak	3.9	2.9	0.04	8.0	3.5	7.2	
Water locust	9.6	3.4	60.0	1.9	8.0	6.1	
Deciduous holly	3.3	2.4	0.12	2.4	0.1	4.9	
Hawthorn	2.6	1.9	0.08	1.6	0.1	3.6	
Water hickory	1.3	1.0	0.02	7.0	2.0	3.4	
Others**		7.8	0.11	2.3	0.5	10.6	
Total	1	100.1	4.91	100.0	8,66	299.9	

Sum of relative frequency, relative density, and relative dominance.

Persimmon, Cedar clm, forestiers Elm .pp., American elm, and Slippery elm, Pasture haw, Black willow, Honey Locust. species present listed in order of decreasing importance values: ** 00%

Appendix B-1 Area 6. Frequency, density, and dominance data for plant species located in Site 3 (nesting area, south-most heronry).

Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density	Relative Dominance %	Importance Value* %
Buttonbush	57.3	35.3	2.69	52.4	21.4	109.1
Green ash	33.2	20.5	1.16	22.5	32.2	75.2
Water elm	19.9	12.3	.42	8.1	12.7	33.1
Tupelo	7.0	4.3	60.	1.8	10.3	16.4
Black willow	8.5	5.3	.16	3.1	7.6	16.0
Willow oak .	2.5	1.6	.04	∞.	6.4	7.3
Eim spp.	5.1	3.1	60.	1.7	1.9	6.7
Rattlebush	4.1	2.5	.10	2.0	.2	4.7
Persimmon	4.1	2.5	.07	1.4	.7	4.6
Water locust	3.8	2.3	.07	1.3	φ.	7.7
Others***		10.3	.24	6.4	7.5	22.7
Total		100.0	5.13	100.0	100.2	300.2

Sum of relative frequency, relative density, and relative dominance.

^{**} Includes American Elm and Slippery elm.

Texas sugarberry, Pecan, Deciduous holly, Parsley hawthorn, Red maple, Winged elm, and Pasture haw. ***Other species present listed in order of decreasing importance value are: Overcup oak, Cedar elm,

Appendix B-1 Area 6. Size classes (dbh) plant species located in Site 3 (nesting area, south-most heronry).

3										
opecies	1-10	Size classes 1-10 11-20 21-30	classes 21-30	(cm) 31-40	41-50	51-60	61-70	71-80	81_00	O
Buttonbush	85								06-70	
Green ash	. 303	59	4							
Water elm	118	13	н							
Tupelo	17	7	4	8						
Black willow	36	12	ო							
Willow oak	σ	7		7						
Elm	24	4								
Rattlebush	32									
Persimmon	21	н								
Water locust	21									
Others**	7.1	7	က							
Totals	1503	102	15	47						

Includes American elm and Slippery elm

** See previous page for other species present

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Appendix 1.1 Area 6. Frequency, density and dominance data for plant species located in Site 4 (northern-most west bank).

Species	Frequency %	Relative Frequency %	Density No./Plot %	Relative Density %	Relative Dominance %	Importance Value*
Water oak	25.0	7.7	0.28	5.4	46.8	59.9
Cedar e.m	43.4	13.4	0.80	15.6	2.9	31.9
Texas sugarberry	39.5	12.2	0.89	17.4	0.4	30.0
Hawthorn	35.5	11.0	0.67	13.1	1.0	25.1
Sweetgun	15.8	6.4	0.21	4.1	16.0	25.0
Blue beach	23.7	7.3	0.39	7.7	6.7	19.9
Pasture haw	23.7	7.3	0.45	8.7	0.7	16.7
Winged elm	22.4	6.9	0.29	5.6	3.3	15.8
Deciduous holly	22.4	6.9	0.23	5.4	9.0	12.9
Southern red oak	3.9	1.2	0.04	0.8	6.6	11.9
Others**		20.8	0.83	16.4	13.8	51.0
Total		9.66	5.13	100.2	100.3	300.1

Sum of relative frequency, relative density, and relative dominances.

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^{**} Other species present listed in order of decreasing importance values: Elm, American elm, Slippery elm, Locust, Willow oak, Hawthorn, Persimmon, Yaupon, Green ash, White ash, Overcup oak, Farkleberry, Pecan, Gum Bimelia, Honey locust, Water elm, Hercules club, chinaberry, Dogwood, Red mulberry, Water locust.

Appendix B-1 Area 6. Size classes (dbh) of plant species locared in Site 4 (northern-most west bank).

Species	1-10	11-20	21-30	31-40	Size cla 41-50	Size classes (cm) 41-50 51-60 6	61–70	71-80	81-90	06
Water oak	н	7	13	2	ч		r;	Н		
Cedar elm	57	e	н							
Texas sugarherry	89									
Hawthorn spp.	51									
Sweetgum	9	2	2	н	e-i	H				
Blue beech	19	11								
Pasture haw	33	H								
Winged elm	19	8		н						
Decionous holly	21									
Southern Red oak			н		7					
Others*	26	2	က	H	н					
fotal	331	26	20	20	20	1	H	H		

See previous page for other species present

Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 5 (middle west bank).

Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Cedar elm	37.5	14.1	.92	21.4	0.9	41.5
Water oak	12.5	4.7	.13	2.9	30.4	38.0
White ash	25.	9.6	• 38	8.7	17.5	35.6
Texas sugarberry	33.3	12.5	.38	8.7	8.2	29.4
Green ash	20.8	7.8	.54	12.6	1.2	21.6
Pasture haw	20.8	7.8	.42	6.7	6.	18.4
Pecan	8,3	3.1	.08	1.9	13.0	18.0
Winged elm	20.8	7.8	.21	4.9	2.8	15.5
Hawthorn spp.	20.8	7.8	.29	6.8	∞.	15.4
Deciduous holly	16.7	6.3	.29	6.8	٣.	13.4
Others**		18.9	99.	15.6	18.9	53.4
Total		100.2	4.30	100.0	100.0	300.2

Sum of relative frequency, relative density and relative dominance.

** Other species present listed in order of decreasing importance values: Parsley haw, southern Red oak, Elm spp. (includes American and Slippery elm) Persimmon, Sweetgum, Dogwood. TOTAL PARTIES OF THE PROPERTY OF THE PROPERTY

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 5 (middle west bank).

Species	1-10	11-20	Size Classes (cm) 21-30 31-40	ses (cm) 31-40	41-50	51-60	61-70	71-80	81–90	06
Cedar elm	17	٠								
Water oak				7		н				
White ash	က	7	н	н						
Texas sugarberry	5	ო	н						•	
Green ash	12	г								
Pasture haw	6	Н								
Pecan			н		н					
Winged elm	ო	2								
Hawthorn	9	Н								
Deciduous holly	7									
Others**	10	က	2	н						
Total	72	20	ટ	7	1	1				

^{**} See previous page for other species present

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Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 6 (southern-most west bank).

Species	Frequency %	Relative Frequence	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value *
Water oak	23.9	8.9	• 30	4.3	37.6	, 48.7
Texas sugarberry	38.6	11.0	1.22	17.3	4.3	32.6
Honey Locust	32.4	9.2	1.16	16.5	9.	26.3
Southern red oak	10.2	2.9	.12	1.7	16.7	21.3
Green ash	19.3	5.5	. 98	12.2	1.4	19.1
Deciduous holly	33.0	6.3	09.	8.5	9.	18.4
Pasture haw	31.8	0.6	.56	8.0	.2	17.2
Pecan	8.5	2.4	.10	. 1.5	8.1	12.0
Chestnut oak	10.2	2.9	.11	1.5	7.5	11.9
Cedar elm	22.7	6.4	.31	4.4	.	11.1
Others**		34.8	1.74	24.4	22.7	81.9
Totals		100.2	7.08	100.3	100.0	300.5

Sum of relative frequency, relative density, and relative dominance.

Other species present listed in order of decreasing importance values: Red mulberry, Elm spp., (American and Slippery elm), Blue beach, Sweetgum, (White ash, Persimmon, Loblolly pine, Winged elm, Shumard oak, Hercules club, Parsley hawthorn, American beautyberry, Laurel oak, Water locuts, Dogwood, Black willow, Overcup oak, Buttonbush, Bitternut hickory, Yaupon, American holly, Mexican plum, Water ** Other species present listed in order of decreasing importance values: elm, Gum bumelta. WEST AND A STREET OF THE STREE

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 6 (southern most west bank)

Species	1-10	11-20	21-30	Size classes (cm) 31-40 41-50	41-50	51-60	61-70	71-80	81-90	90
Water oak	6	1.1	15	6	'n	ന		гH		
Texas sugarberry	207	က	ന	2						
Honey locust	203	н								
Southern red oak	7	ო	9	9	ო	н				
Green ash	149		7							
Deciduous holly	105			٠						
Pasture haw	66									
Pecan	7	7	4	7			H			
Chestnut oak	7	6	4	н		Н				
Cedar elm	55									
Others**	255	34	ស	1		2	٦	н		
Totals	1096	65	39	21	æ	7	2	2		

^{*} See previous page for other species present

Appendix B-1 Area 6. Frequency, density, and dominance data for plant species located in Site 7. (East bank of North heronry)

į						
Species	Frequency	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Green ash	25.0	8.6	77.	9.1	13.3	31.0
Sweetgum	27.1	9.3	.38	7.8	11.4	28.5
Water oak	10.4	3.6	.10	2.2	16.0	21.8
Eastern cottonwood	4.2	1.4	70.	o.	19.4	21.7
Texas sugarberry	22.9	7.9	77.	9.1	1.7	18.7
Box elder	12.5	4.3	.54	11.3	1.7	17.3
White ash	4.2	1.4	,04	6.	13.5	15.8
Yaupon	16.7	5.7	.38	7.8	1.1	14.6
E1m**	16.7	5.7	.31	6.5	2.3	14.5
Persimmon	18.8	6.4	.33	6.9	6.	14.2
Others***		45.7	1.82	37.6	18.6	101.9
Total		100.0	4.82	100.1	6.99	300.0

Sum of relative frequency, relative density and relative dominance.

Includes American elm and Slippery elm.

*** Other species present listed in order of decreasing importance values: American beautyberry, Dogwood, Pecan, Winged elm, Sassafras, Blue beech, Deciduous holly, Water hickory, Southern red oak, willow oak, Pasture haw, White oak, Overcup oak, Cedar elm, Devil's walking stick, Gum bumelia, Privet. TO TO TO THE TANKS THE PROPERTY OF THE PROPERT

Appendix $_{\rm B-1}$ Area 6. Size classes of plant species located in Site 7. (East Bank of North heronry)

Species	1-10	11-20	Size 21-30	classes (cm) 31-40 4	(cm) 41-50	51-60	61-70	71-80	81-90	06
Green ash	12	Ŋ	4							
Sweetgum	10	Ŋ	ო							
Water oak	ч	7		н		r.				
Eastern cottonwood						7				
Texas sugarberry	20	٦								
Box elder	24	2								
White ash	н						H			
Yaupon	18									
Elm spp.*	13	7								
Persimmon	15	н								
Others**	73	1.2	2							
Total	187	30	6	1	0	3	H			

Includes American elm and Slippery elm.

^{**} See previous page for other species present.

Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 8, (east bank of middle heronry)

		•				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density	Relative Dominance %	importance Value*
		%		2		•
	8 8 9	30.6	9.25	78.7	19.7	129.0
Green ash) i	7 7	0.19	1.6	22.2	31.2
Texas sugarberry	16.7	, u	0.15	1.2	16.4	24.1
Elm spp.	14.6	0.0		í	o	21.2
2. 2. 3. 4.	29.2	13.0	0.85	7.3	·	
rasture naw		٥.	0.02	0.2	19.6	20.7
Sweetgum	T .	α	0.31	2.7	2.2	13.2
Cedar elm	18.8		,	r.	2,5	12.0
Dore immon	16.7	7.4	0.25	7.7	1	
	r c	6.0	0.02	0.2	10.3	11.4
Southern red oak	7.7	0	0.21	1.8	0.1	10.2
Yaupon	18.8		1 0	и С	6°E	7.2
Black willow	6.3	2.8	90.0			C C
***************************************		13.8	0.43	3.7	2.3	14.0
חרוועדפ						0 000
		6.66	11.74	100.0	100.1	2
locar						

Sum of relative frequency, relative density, and relative dominance.

Parsle" haw, Honey Other species present listed in order of decreasing importance values: *

locust, Hawthorn, Deciduous holly, Dogwood

Appendix B-1 Area 6. Tize classes (dbh) of plant species located in Site 8 (east bank of middle heronry)

Species				, , , , , ,					
	1-10	11-20	21-30	31-40 41-50	51-60	61-70	71-20	81_00	Ċ
Green ash	483	9						02-10	
Texas sugarberry	7	2	8	п					
Elm spp.	ĸ			2					
Pasture haw	41								
Sweetgum					н				
Cedar elm	14	1							
Persimmon	11	rt							
Southern red oak				1					
Yaupon	10								
Black willow	Т	7							
Others*	21								
Total	545	12	2	7					

See previous page for other species present

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Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 9. (east bank of south heronry)

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance	Importance Value*
Cedar elm	64.8	12.3	1.41	14.3	13.4	40.0
Willow oak	24.6	4.7	0.37	3.7	24.1	32.5
Pasture haw	63.1	12.0	1.45	14.7	3.6	30.3
Winged e.lm	64.2	12.2	1.34	13.5	3.0	28.7
Water oak	24.6	4.7	0.31	3.2	17.9	25.8
Hawthorn	37.4	7.1	0.74	7.5	1.9	16.5
Texas sugarberry	32.4	6.2	0.71	7.2	1.1	14.5
Deciduous holly	30.7	5.8	0.61	6.2	0.4	12.4
Southern red oak	11.7	2.2	0.15	1.5	8.4	12 1
White ash	22.9	7.7	0.47	4.8	2.3	11.5
Others**		28.3	2.37	23.7	23.8	75.8
Total		6.66	9.93	100.3	6.66	300.1

Sum of relative frequency, relative density, and relative dominance.

elm), Blue beech, Parsley hawthorn, Sweetgum, Red mulberry, Overcup oak, Green ash, Chestnut oak, Loblolly pine, Honey locust, Dogwood, Black tupelo, Yaupon, Bitternut hickory, Hercules club, Pecan, Forestiera, Water hickory, Laurel oak, Roughleaf dogwood, Gum bumelia, Arrowwood, Black willow, Reubird, American holly, Buttonbush, and Downy viburnum. ** Other species present listed in order of decreasing importance values: Elm (American elm and Slippery

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 9 (east bank of south heronry)

Species	1-10	11-20	Size classes 21-30	31-40	41-50	51-60	61-70	71-80	81-90	06
Cedar elm	255	18	7	က						
Willow oak	30	14	14	9	8					
Pasture haw	260									
Winged elm	232	7					٠			
Water oak	28	15	ω	4	н					
Hawthorn spp.	131	гĦ								
Texas sugarberry	127									
Deciduous holly	110									
Southern red oak	14	7	4	ന	н					
White ash	84				H					
Others*	379	21	10	7	3					
Totals	1620	80	43	20	8					

See previous page for other species present.

Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 10, (peninsula forest)

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value**
American beautyberry	15.2	14.3	.24	17.2	.1	31.6
Southern red oak	5.7	5.3	90.	4.5	14.3	24.1
Sweetgum	6.4	0.9	.07	5.3	11.3	22.6
Chestnut oak	4.5	4.3	.05	3.3	10.5	18.1
Blue beech	8.0	7.5	.11	7.6	2.1	17.2
Yaupon	٠,	9.6	.17	11.9	. 2	16.0
Willow oak	3.4	3.2	.04	2.6	9.6	15.4
Water oak	2.6	2.4	.03	1.9	10.4	14.7
Winged elm	6.7	6.3	.08	5.6	2.1	14.0
Elm spp.*	4.1	3.9	.05	3.8	7.7	12.1
Others***		42.7	.47	35.8	35.1	113.6
Total	1	8,66	1.37	99.5	100.1	299.4

Sum of relative frequency, relative density, and relative dominance. *

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Pasture haw, Green ash, Sassafras, White ash, Red mulberry, Hawthorn spp., Loblolly pine, Cedar elm, Persimmon, Overcup oak, Shumard oak, Forestiera, Water hickory, Mexican plum, Arrewood viburnum, *** Other species present listed in order of decreasing importance values: White oak, Texas sugarberry, Eastern hophornbeam, Bitternut hickory, Black gum, Pecan, American beech, American holly, American basswood (may include carolina baswood and Florida basswood), Parsley hawthorn, Deciduous holly, Devil's walking stick, English dogwood, Laural oak, Privet forestiera, Honey Locust, Beselder, Flowering dogwood, Buttonbush, Redbud, Strawberry bush, American sycamore, and Farkleberry.

Appendix B-1 . Area 6. Size classes (dbh) of plant species located in Site 10 (peninsula forest)

Species	1-10	11-20	Size cla 21-30	classes (cm) 31-40	41–50	51-60	61–70	71-80	81-90	90
American beautyberry	170									
Southern red oak	ო	ω	11	œ	Ŋ	7	8	ო		
Sweetgum	18	σ	'n	ស	9	S	7			
Chestnut oak	7	7	6	5	ო	8	ო	Н	н	
Blue beech	77	27	7							
Yaupon	116	н								
Willow oak	64	ហ	Ŋ	5	н	7	9			
Water oak		,-1	ന	7	7	7	ო	н	н	
Winged elm	37	10	9	н	н					
Elm spp.	16	6	8	જ	7	н				
Others										
Total										

See previous page for other species present.

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Appendix B-1 Area 6. Frequency, density, and dominance data for plant species located in Site 11. (Island)

Species	Frequency %%	Relative Frequency	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Willow oak	40.6	26.6	0.72	31.5	51.3	109.4
Cedar clm	30.0	19.7	0.47	20.7	20.2	9.09
Hawthorn	21.7	14.2	0.28	12.2	2.5	28.9
Pasture haw	13.3	8.7	0.20	8.9	1.9	19.5
Deciduous holly	13.1	8.6	0.19	8.4	0.5	17.5
Winged elm	7.5	6.9	0.09	3.8	3.9	12.6
Water oak	5.8	3.8	0.09	3.9	4.2	11.9
Southern red oak	1.4	6.0	0.01	9.0	5.1	9.9
Honey Locust	3.6	2.4	0.04	2.0	1.9	6.3
Parsiey hawthorn	3.1	2.0	0.04	1.8	0.2	4.0
Others**		8.1	.14	6.2	8.4	22.7
Totals		6.66	2.27	100.0	100.1	300.0

Sum of relative frequency, relative density and relative dominance.

Overcup oak, Blue beech, Loblolly pine, Green ash, Texas sugarherry, White ash, Elm, (Includes American Yaupon, Chestnut oak, Persimmon, Other species present listed in order decreasing importance values: Elm, and Slippery clm), Pecan, Sweetgum, Gum bumelia, Water hickory. *

Appendix B-1 Area 6. Size classes of plant species located in Site 11 (the island)

Species	0-10	11-20	Size c. 21-30	classes (cm) 31-40	41-50	51-60	61–70	71-80	81–90	06
Willow oak	165	107	26	0	ო	7	ო	н		
Cedar elm	77	09	29	ო						
Hawthorn	95	Ŋ								
Pasture haw	65	æ					•			
Deciduous holly	69									
Winged elm	12	12	7							
Water oak	12	17	8		Ħ					
Southern red oak	1				4					
Honey locust	5	80	т							
Parsley hawthorn	15									
Others*	31	10	7	7	7	H				
Total	487	227	71	14	10	5	3	Ţ		

See previous page for other species present.

Appendix B-1 Area 6. Frequency, density, and dominance data for plant species located in Site 12 (tupelo swamp).

Species	Frequency %	Relative Frequency	Density No./Plot	Relative Density %	Relative Dominance	Importance Value*
Tupelo	75.0	8.09	2.53	74.0	98.1	232.9
Button bush	24.0	19.5	0.50	14.6	0.1	34.2
Green ash	6.7	7.8	0.16	4.6	0.7	13.1
Water elm	3.3	2.7	0.05	1.4	0.1	4.2
Red maple	2.0	1.6	0.03	1.0	T**	2.6
Deciduous holly	1.7	1.4	0.04	1.2	Т	2.6
Persimmon	2.0	1.6	0.03	0.8	0.1	2.5
Water hickory	1.7	1.4	0.03	0.8	0.2	2.4
Sweetgum	1.0	8.0	0.01	0.4	0.2	1.4
Texas sugarberry	0.7	0.5	0.01	0.3	0.1	6.0
Others**		1.9	.03	1.0	0.3	3.2
Total		100.6	3.41	100.1	6.99	300.0

Sum a relative frequency, relative wensity, and importance value,

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^{*} Value less than 0.1%

^{***} Other species present in order of decreasing importance values: Overcup oak, Water oak, Cedar elm, Elm spp. (includes smerican elm and Slippery elm), Willow oak.

Appendix B-1, Area 6. Size classes of plant species located in Site 12 (tupelo swamp)

Species	0-10	11–20	21–30	Size cl 31-40	Size classes (cm) 1-40 41-50	51-60	61-70	71-80	81-90	90
Tupelo	238	181	121	86	89	38	18	2	7	H
Buttonbush	150									
Green ash	29.	18								
Vater elm	12	7								
Red maple	10									
Deciduous holly	12									
Persimmon	7	H								
Water hickory	Ŋ	н	7						٠	
Sweetgum	н	н	2							
Texas sugarberry	H		ᆏ							
Others*	7	ત	H	H						
Total	472	205	128	06	89	38	18	2	2	

See previous page for other species present.

plant species located in Site 13 (shallow swamp cast of north heronry) Area 6. Frequency, density and dominance data for Appendix B-1

Species	Frequency %	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Green ash	64.3	25.4	2.29	37.2	12.4	75.0
Button bush	75.0	29.6	2.04	33.1	9.1	71.8
Eastern cottonwood	d 3.6	1.4	.04	9.	47.9	6.64
Black willow	28.6	11.3	.39	6. 4	3.3	21.0
Water locust	21.4	8.5	.29	4.7	7.4	20.6
Water elm	21.4	8.5	.39	6.4	1.4	16.3
Tupelo	3.6	1.4	.07	1.2	13.4	16.0
Rattlebush	14.3	5.6	.39	6.4	۳.	12.3
**Elm spp.	7.2	2.8	80.	1.2	3.5	7.5
Overcup oak	3.6	1.4	. 04	9.	φ.	2.8
Others**		4.2	.15	2.4	.5	7.1
Total		100.1	6.17	100.2	100.0	300.3

Sum of relative frequency, relative density and relative dominance.

^{*}

Includes American elm and Slippery elm. Other species present listed in order of decreasing importance values: Deciduous holly, Red maple, Texas sugarberry.

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 13 (shallow swamp east of north heronry)

Species									
	1-10	11-20	21–30	Size classes (cm) 31-40 41-50	51-60	61-70	71-80	81-90	0
Green ash	62	2							02
Cottonbush	57								
Eastern cottonwood						н			
Black willow	11					•			
Water locust	9	т	ч						
Water e.lm	11								
Tupelo	H			1					
Roughleaf dogwood	11								
Elm spy.*	2	н							
Overcup oak	п								
Others**	4								
Total	166	7	1	1		1			

* Includes American and Slippery elm.

** See previous page for other species present.

Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 14 (shallow swamp-east of middle heronry).

į

Species	Frequency	Relative	Density No /Plot	Relative	Relative Dominance	Importance Value*	
		1 0 c	ν α ν υ α ν	70.4	36.1	135.2	
Green ash	7.69	1.07		- • •		!	
Black willow	29.5	12.2	. 29	3.0	27.5	42.7	
Button bush	4.7.4	19.7	1.18	12.1	3.3	35.1	
Water elm	25.6	10.6	67.	5.0	11.4	27.0	
Tupelo	12.8	5.3	.21	2.1	0.9	13.4	
Water hickory	0.6	3.7	.13	1.3	7.9	12.9	
Persimmon	14.1	5.9	.18	1.8	4.	8.1	
Sweetgum	3.8	1.6	.04	4.	3.2	5.2	
Texas sugarberry	3.8	1.6	• 05	3.	3.5	. 9.4	
Elm spp.	6.4	2.7	60.	6.	.1	3.7	
Other**	‡ 	7.9	.22	2.2	1.6	11.7	
Totals		6.66	9.73	7.66	100.0	299.6	

Sum of relative frequency, relative density, and relative dominance.

Other species present listed in order of decreasing importance values: Water locust, Rattlebush, Deciduous holly, Foresteria, Willow oak, Chinese sallow tree, Overcup oak, Cedar elm. *

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 14 (shallow swamp - east of middle heronry)

Sportos				Size cla	Size classes (cm)					
operace	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	90
Green ash	513	17	ო	н					•	
Black willow	4	12	Ŋ	н	н					
Buttonbush	92									
Water alm	26	11	H							
Tupelo		6								
Water hickory	50	т	H	н						
Persimmon	14									
Sweetgum	2			т						
Texas sugarberry	m		н							
Elm spp.	7									
Other*	15	7								
Total	688	54	11	7	1					

^{*} See previous page for other species present.

Appendix B-1 Area 6. Frequency, density and dominance data for plant species located in Site 15 (shallow swamp south of island)

	Frequency	Relative Frequency %	Density No./Plot	Relative Density %	Relative Dominance %	Importance Value*
Willow oak	29.2	25.7	0.57	26.0	37.3	89.0
Button bush	27.9	24.6	0.84	38.5	3.5	9.99
Cedar elm	16.9	14.9	0.24	10.9	23.0	48.8
Water hickory	5.8	. 5.1	90.0	3.0	, 20.3	28.4
Green ash	12.3	10.9	0.22	10.1	1.7	22.7
Overcup oak	2.6	2.3	0.03	1.2	7.0	10.5
Black wiilow	3.2	2.9	0.05	2.1	5.3	10.3
Deciduous holly	5.2	7.6	0.07	3.3	0.5	8.4
Persimmon	3.9	3.4	0.05	2.1	9.0	6.1
Hawthorn	3.2	2.9	0.03	. 1.5	0.3	4.7
Ot hers**		2.7				
Total		100.2	2.20	100.2	100.0	300.4

Sum of relative frequency, relative density, and relative dominance.

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Pecan, Southern red oak, ** Other species present listed in order of decreasing importance values: Texas sugarberry.

Appendix B-1 Area 6. Size classes (dbh) of plant species located in Site 15 (shallow swamp south of island)

Species	1-10	11-20	21–30	Size classes (cm) 31-40 41-50	21-60	61-70	71-80	81-90	90
Willow oak	55	27	S	т					
Buttonbush	130								
Cedar elm	7	28	2			•			
Water hickory	٣	ĸ	7	H	н				
Green ash	33	н							•
Overcup oak	н		ო						
Black willow	7	2	н						
Deciduous holly	11								
Persimmon	9	н							
Hawthorn	5								
Others*	۲								
Total	260	62	13	2	1				

^{*} See previous page for other species present.

CHAMPION BIG TREES IN TEXAS*

(within the Trinity River Basin)

americana) 1968 Location: Poll Height 116' Crown Spread 66' Index 282½ Location: Polk Co. WHI'L ASH (Fraxinus americana) Circumference 150"

Owner: Alabama-Coushatta Indian Reservation, Livingston, Texas

RINDA BURCH (Betula nigra) 1967 Location: Polk Co.

Height 84' Circumference 113" Crown Spread 56' Index 211

Owner: Robert Willis, Livingston, Texas

RUSTY BLACKHAW (Viburnum rufidulum) 1965 Location: Leon Co.

Circumterence 26" Height 28' Crown Spread 24' Index 60

Owner: O.C. Shaw, Star Route, Buffalo, Texas

Location: Houston Co. OHTO BUCKEYE (Aesculus glabra) 1970

Circumference 21" Height 20' Crown Spread 22' Index 46%

Owner: Mrs. Ruth Ballew, Avenue 2, Huntsville, Texas

Location: Freestone Co. GIM BUNELIA (<u>Pumelis</u> <u>lanuginosa</u>)

Circumference 70" Height 51' Crown Spread 41' Index 1312

Owner: Homer P. Bonner, Streetman, Texas

ALLEGHENY CHINKAPIN (Castanea pumila) 1970 Location: Houston Co.

Crown Spread 72' Index 292 Circumference 228" Height 46'

Owner: S. D. Anderson, Rt. 1, Crockett, Texas

1972 Circumference 172" Height 55' HACKBERRY (Celtis occidentalis) Location: Liberty Co. Crown Spread 81' Index 247%

Owner: Mr. A. W. Waldman, 2495 McFaddin, Beaumont, Texas

BLACK HICKORY (Carya texana) Location: Hardin Co. 1964

Circumference 112" Height 90' Crown Spread 86' Index 223½

Owner: Kirby Lumber Corp., Houston, Texas

WATER HICKORY (Carya aquatica) 1967 Location: Folk Co.

Circumference 106" Height 130' Crown Spread 69' Index 253½

Owner: Alabama-Coushatta Indian Reservation, Livingston, Texas

Location: Liberty Co. AMERICAN HOLLY (Ilex opaca) 1964

Crown Spread 61' Index 228½ Circumference 160" Height 53'

Owner: A. L. Rives, Hardin, Texas

TEXAS HONEYLOCUST (Gleditsia texana) 1972 Location: Henderson Co.

Circumference ? . Height ? Crown Spread ? Index ?

Owner: Stevens Lake Ranch

1970 EASTERN COTTONWOOD (Populus deltoides) Location: Houston Co.

Crown Spread 93' Index 426% Circumference 273" Height 130'

Owner: W. G. Breazeale, College Station, Texas

^{*} Texas Forest Service. 1972. Registry of Champion Big Trees in Fexas. Texas Forest Service, College Station, Texas.

Appendix B-2 (cont.)

DEVIL'S WALKINGSTICK (Aralia spinosa) 1970 Location: Houston Circumserence 10" Height 36' Crown Spread 15' Index 49 3/4 Location: Houston Co.

Owner: Fr. John Wootters, 405 E. Bell St., Crockett, Texas

CEDAR ELM (Clmus crassifolia) 1971 Location: Limestone Co.

Circumference 98" Height 94" Crown Spread 50' Index 204½

Owner: Clen R. Henderson, Rockdale, Texas

1964 Location: Leon Co. WINCED BLM (Finns alata

Circumference: 120" Height 64' Crown Spread 91' Index 206%

Owner Charles McMichen, Centerville, Texas

Location: Polk Co. 1969 SUGAL MAPLE (Acer saccharum)

Circumference 80" Height 98' Crown Spread 60' Index 193

Owner: Alabama-Coushatta Indian Reservation, Livingston, Texas

POUTHERN MACNOLIA (Magnolia grandiflora) 1969 Location: San Jacinto Co.

Circumference 198" Height 91' Crown Spread 69' Index 306%

Owner. U. S. Forest Service, Box 817, Cleveland, Texas

1969 WHITE MULBERRY (Morus alba) Location: Tarrant Co.

Circumscrence 110" Height 45' Crown Spread 55' Index 168 3/4

Owner: Mrs. John F. Utter, Rt. 3, Box 392, Arlington, Texas

BLUEJACK OAK (Quercus incana) Location: Freestone Co. HINTER CONTROL OF THE PROPERTY OF THE PROPERTY

Circumference ? Height ? Crown Spread ? Index ?

Owner: W. L. Lott, Fairfaild, Texas

LAUREL OAK (Quercus laurifolia) 1969 Location: Pol Circumference 93" Height 124' Crown Spread 76' Index 236 Location: Polk Co.

Owner: Alabama-Coushatta Indian Reservation, Livingston, Texas

1968 Location: Polk Co. SHUMARD OAK (Quercus shumardii)

Circumference 182" Height 120' Crown Spread 92' Index 324 3/4

Owner: Alabama-Coushatta Indian Reservation, Livingston, Texas

1967 Location: Parker Co. PECAN (Carya illinoensis)

Circumference 221" lieight 110' Crown Spread 110' Index 358.8

OWner: Malbrey Oglesby, Weatherford, Texas

1964 Location: Leon Co. Crown Spread 57' Index 212½ COMMON PERSIMMON (Diospyros virginiana)

Circumference 140" Height 58'

Owner: C. L. Cadenhead, Buffalo, Texas

1969 Location: Houston Co. Crown Spread 32' Index 131 PLANTERTREE (Planera aquatica)

Circumference 85.2" Height 38'

Owner: U.S. F.S .-- Davy Crockett National Forest, P.O. Box 969, Lufkin, Texas

FLAMELEAF SUMAC (Rhus copallina) 1964 Location: Freestone Co.

Circumference 24" Height 27' Crown Spread 21' Index 56½

Owner: T. R. Childs, Fairfield, Texas

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CHINESE TALLOWTREE (Sapium sebiferum)
Circumference 103"

Height 40'

Crown Spread 66'

Index 159½ Location: Polk Co.

Owner: Goodrich Independent School District, Goodrich, Texas

Appendix B-2 (cont.)

WATERLOCUST (Gleditsia aquatica) 1972 (new champion) Location: Madison Co

Circumference ? Height ? Crown Spread ? Index ?

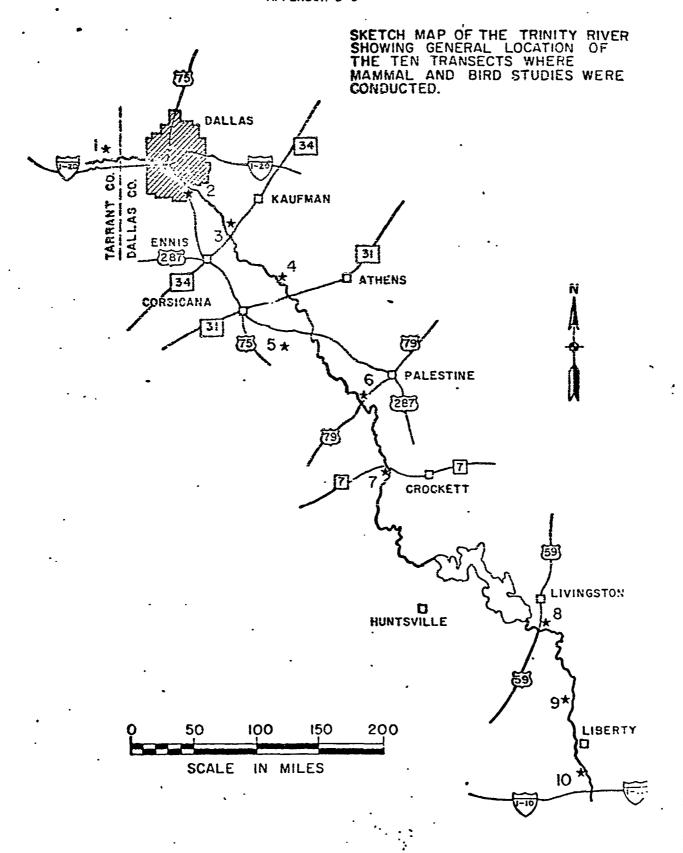
Owner: R. Clint Wakefield; 1624 E. Main, Madisonville, Texas

YAUPON (Ilex vomitoria) 1964 Location: Liberty Co.

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Circumference 46" Height 32' Crown Spread 37' Index 87%

Owner: B. H. Whittington, Devers, Texas



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Transect No. 1

Location: extreme eastern Tarrant County, just south of the Greater Southwest Liternational Airport, on the north side of the "rinity River and on the east side of Highway 360. Starting point: about 200 meters east of Highway 360 and 30 meters south of a railroad track. Habitat description: rather hilly topography; scrub oaks and scattered mesquite on upland sites; open cedar elm forests on the narrow river floodplain; large cottonwoods and willows along the river; frequent grassy or scrubby clearings. General comments: very heavy human use, principally motorbike riding and horseback riding; much noise disturbance from railroad trains and from airplanes landing and taking off at the airport; light livestock grazing by horses in the eastern part of the study area; frequent target shooting and "pot-shooting along the river; the transect runs in a general eastward direction between the river (touching it at one point) and the main E-W railroad track.

Transect No. 2

Location: Dallas County, Fin and Feather Club on the southeast side of Dallas on the west side of the river just north of the Dowdy Ferry Road bridge. Starting point: north side of the Fin and Feather Club lake, about one mile north of the main clubhouse. Habitat description: open, heavily cutover floodplain forest dominated by cedar elms and oaks; many large cottonwoods were recently removed; frequent piles of brush; little ground cover; very homogeneous habitat. General comments: the transect parallels the river for most of its length, following rather closely a bulldozed track which lies between the river and a dike along the shore of the Fin and Feather Club lake; for the first ten stations the transect proceeds northerly toward the river, crossing the dike; the transect then turns right and follows the river downstream (touching the river bank at two points), curving gradually almost 180° around to the right; there is no livestock grazing; during the open secson squirrels and waterfowl are extensively hunted.

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Transect No. 3

Location: Kaufman County, "Flying A" Ranch just west of Rosser on the east side of the river about 1 mile downriver from the mouth of the East Fork of the Trinity River. Starting point: top of the river levee about 1-1/2 miles west of a new ranch house owned by Fred Alford. Jr. The starting point lies on the levee about 300 meters NW of where a farm road climbs up on the levee. Habitat description: principally cedar-elm forest on the river floodplain; the first 30 stations follow the top of the levee, which is cleared and is grown up in grasses and weeds; large open fields and pastures lie within 100 meters of the northeast side of the levee (away from the river), although the levee

itself on this side is bordered by a narrow strip of forest (about 75-100 meters wide); within the study area all of the land lying between the levee and the river (a rather wide are of about 1,200 meters) is forested. General comments: overall quality of the forest rather poor, but fairly good woody understory and grass ground cover; no livestock grazing during the duration of this study; scattered wet depressions and sloughs present on the floodplain; heavy black clay soil; no Spanish moss.

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Transect No. 4

Location: Henderson County, Bruce Smith Ranch about nine miles northwest of Trinidad, approximately three miles upriver from the mouth of the outflow from Cedar Creek Reservoir. Starting point: about 50 meters from the river bank near a small hayshed where a vehicle track comes down to the river along a cleared strip through an extensively wooded area; there is a small clearing adjacent to the river bank at this site, which is the only nonforested area on the bank itself for several miles in either direction on this side of the river; just above the starting point the river makes a right angle bend from east to south, and then 3/4 of a mile downriver the river makes a wide bend to the left and flows in a northeasterly direction briefly before turning again, to the southeast. Habitat description: except for the small clearing at the beginning, the whole transect line traverses an extensive floodplain woodland dominated by cedar-elm. General comments: rather open forest with fairly mature trees (but no Spanish moss); many sloughs and wet depressions; heavy grazing by cattle except when too wet; sticky black clay soil; the transect parallels the river for most of its length, touching the bank at one point.

Transect No. 5

Location: extreme northern Freestone County; Neal farm one mile south of the New Hope Church (on FM Road 416), approximately nine miles ENE of Streetman and 8-1/2 miles WSW of Highway 287 bridge over the Trinity River. Starting point: near a small intermittent stream about 100 meters west of the Neal trailer home; to get to the Neal farm go SSE on a gravel road which leads off FM 416 just east of the New Hope Church (there is a very short jog initially and another access to FM 416); in about 1/2 mile turn right (the gravel road continues on SSE) on another gravel road; this road will angle to the left (south) in less than 1/2 mile, and immediately thereafter the Neal trailer home will be on the right. Habitat description: upland farmland lying on a low rise between Tehuacana and Richland creeks (the study areas lies above the flood pool elevation of the proposed Tennessee Colony Reservoir); predominantly pastures and cropland; a narrow belt of cutover riverine woodland borders a small intermittent stream; scattered junipers in old neglected fields. General comments: banks of the intermittent stream rather steep in places; numerous small eroded gulleys along the upper portions of the stream; a few large mature trees (elm,

pecan, hickory, and oak) remain in the woodland belt along the creek; scattered trees and thickets along the fencerows; all areas lightly to heavily grazed by cattle (except one large plowed field adjacent to the transect).

Transect No. 6

Location: Anderson County just north of Highway 79/84 bridge over the Trinity River, on the east side of the river approximately nine miles southwest of Palestine. Starting point: about 700 meters north of the highway and 250 meters east of the river, at a point in an old weedy field 150 meters south of a small (5 acre) isolated patch of forest on the river floodplain. Habitat description: old neglected, ungrazed weedy field and thickets on the river floodplain; two small isolated patches of cutover bottomland forest, each about 5 acres. General comments: this area has apparently had no human use for several years; presently there is no grazing and therefore a relatively good ground voere of grasses, vines, and Rubus exists (except in the two patches of forest where there is very little ground cover); there is a narrow border of trees along some of the fences; the river itself (about 250 meters away) has a narrow belt of woodlands along the near bank; adjacent to the north side of the study area is a pasture heavily grazed by cattle; a small low wet marshy depression and drainage borders the transect area to the east.

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Transect No. 7

Location: Leon County, just south of Highway 7 bridge over the Trinity River, on the west side of the river. Starting point: about 250 meters south of the highway and 500 meters west of the river, at a point on the north edge of a small woody slough. Habitat description: principally heavily cutover and grazed floodplain forest dominated by cedar elm; Spanish moss abundant; the forest at the beginning of the transect has been more heavily cleared and is now a scrubby clearing with scattered trees on a low rise in the topography between the slough and river floodplain; between the highway and the start of the transect is a small open heavily grazed pasture with a very small stock pond; an old weedy field borders this pasture to the west. General comments: the forest has only a few large trees and little ground cover; all of the study area is grazed by cattle; much Crataegus in the forest clearings; the transect in general parallels the river for most of the way, touching it at two points; several low wet depressions on the floodplain.

Transect No. 8

<u>Location</u>: southern Polk County; Jones farm on the north side of the Trinity River and east side of Highway 59. <u>Starting point</u>: about one mile east of Highway 59 and 1-1/2 miles north of the Trinity River, on

the east side of McCardell's Lake at a point where a small intermittent stream leaves the lake. <u>Habitat description</u>: cutover woodlands mixed with open pastureland; a large swamp (McCardell's Lake) with some open water and many large tupelo gums borders the transect on the west; at the outlet of this swamp and for about 50 meters downstream (along the transect) is a small marshy area. <u>General comments</u>: all forests are heavily cutover with only a few scattered mature trees and sometimes with a dense thickety woody undergrowth; two cleared pipeline right-of-ways parallel or cross the transect line; all areas are heavily grazed by cattle.

Transect No. 9

Location: upper Liberty County, just south of Highway 162 bridge, about 50 meters from the river bank at a point approximately 100 meters south of a small stream flowing east into the river. Habitat description: mature cutover bottomland hardwood forest on the river floodplain; many scattered large mature oaks; bald cypresses numerous along the edge of a long slough. General comments: forest relatively open with little ground cover; at station 30 the transect line intersects a long water-filled slough bordered by cypresses, then turns left and parallels the near (to the river) edge of the slough for the rest of its length, finishing about 50 meters from the river bank; extremely heavy disturbance by wild pigs throughout the transect area but no cattle grazing during this study; by the end of the study a buli-Jozed track had been made into the area in preparation for a new housing development; shallow wet depressions and drainageways are common throughout the forest.

Transect No. 10

Location: extreme southern Liberty County, two miles east of the community of Old River (on FM Road 1409), just north of the Chambers County line and about two miles west of the Trinity River. Starting point: about two miles east of FM Road 1409 and 200 meters north of the east end of hard-surfaced road running east (parallel to the county line) from the community of Old River, at a point on a pipeline right-of-way. Habitat description: mostly open bottomland forest with much palmetto, and one large grassy neglected field; two large bayous bordered by cypresses; an open grassy scrubby upland area at the start of the transect (along and adjacent to the pipeline right-of-way). General comments: transect starts in an old field above the wide river floodplain but soon drops down onto the floodplain and runs in a northerly direction, paralleling the west bank of a prominent bayou; eventually the transect crosses this bayou (on an old small concrete bridge) and then shortly thereafter turns southward and runs between this bayou and another major bayou just to the east; all of the bottomland area is very heavily disturbed by wild pigs but no cattle were present during the study period; a good grassy ground cover was present in parts of the forest.

All habitats at every study area were classified into one of four major categories as shown in Table V-02. At each of the ten transects an estimate was made of the percent contribution of each of the four major habitats to the total study area (study area being defined as that area within 150 meters of all points along the transect line). Habitat percentages were also calculated for each of three arbitrarily designated river sections defined as follows: upper river--transects 1, 2, and 3; middle river--transects 4, 5, 6, and 7; lower river--transects 8, 9, and 10.

Appendix B-3-1 Results of electrofishing samples July 12, September 13, and December 6, 1972 Irinity River at Righway 21 bridge near Ridway, Texas 1

longnose gar gizzard shad river carpsucker spotted sucker carp red shiner yellow bullhead flathead catfish blackstripe topminnow brook silverside hite bass largesouth black bass largesouth sunfish bluegill sunfish longear sunfish longear sunfish	3 +		51 A15-450 USA 4-9 150 E15-45-4 A45-464	
174 44. 1 4 1. 50 12. 1 2 2. bass 18 4. 2 2 4. 52 2 5. 67 17.	4 2 2 6	90.	C	90
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11 2.	8		Φ.	1.28
387 100.	100.00	89.11	100.00	•
14.	7.7	9.5	5.6	1
r Species 331 85.	S	39.53	44,35	1

Data supplied by Texas Parks and Wildlife Department personnel.

Appendix B-3-2 Results of electrofishing samples July 11, September 12, and December 5, 1972 Trinity River at Highway 19 bridge crossing.

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Cogeon Yabe	Number	% of Number	Weight (pounds)	% Weight	Average Weight (Pounds)	
gizzard shad threadfin shad river carpsucker carp golden shiner red shiner bullhead minnow	312 312 10 10 12 3	1 00 3 12 01 12 12 14 14 14		46.20 34.93 34.51 .02 .02 .01	5.26 5.26 5.26 1.10	
black bullhead catfish flathead catfish tidewater silverside brook silverside white bass yellow bass largemouth black bass redear sunfish longear sunfish white crappie	30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.10 10 10 10 10 10 10 10 10 10 10 10 10 1	2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
TOTAL: (20 species) Game Fish Other Species	1026	100.00 1.36 98.64	152.34 15.96 136.38	10.48	1 1	1

1 Data supplied by Texas Parks and Wildlife Department personnel.

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Appendix B-3-3 Results of seine sampling, October 28,1972 at the Loop 12 and Trinity River bridge

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Connon Name	Number	% of Number		M Weig	Average Wt. (grams)	Average Length (mm)
mosquitofish gizzard shad TOTAL: (2 species) 12 Game Fish Other Species 12	12 0 0 12	91.63 8.37 100.00 0	4.51 6.60 11.11 0	40.60 59.40 100.00 100.00	0.41 6.60 -	27.27 89.00 -

Appendix B-3-4 Results of seine sampling, October 28,1972 at the Post and Paddock Riding Club

Common Name Numbe	Number	Total Wt. Avight (grams) % Weight	Total #t. (grams)	% Weight	Average Wt. (grams)	Average Length (mm)
1	3211	99.66 2215.59 98.68	2215.59	98.68		
mosquitorism		225	7.49	1186	1.07	0 • 11 11
red shiner		90	14.20	, 2 t	7.10	79.5
5 13		90•	8.20	. 2 th	4. 10	78.5
gizzard snad	3222	100.00	2245.48	100.00	i	•
Game Fish	3222	100.00	0 2245.48	100-00	1 1	t t

Appendix B-3-5 Results of seine sampling, February 2,1972 at the Lake Livingston Dam and the Trinity River

Common Name Numb	Number	% of Number	Total #t. (grams)	% Weight	Average Ht. (grams)	Average Length (mm)
	A 470 470 470 AND	1 THE CASE OF THE PART AND THE			00 6	23.00
golden shiner	m į	1.58	70.70	 	C	23,60
threadfin shad	£ 4.	th 6 1 7	07.01	2000	16. 25	127.60
gizzard shad	9-	2.0	00.0		02.	32.00
bullhead minnow	u	- C - C	2, 70	<.25 <.25		20.10
mosquitorish tidewater silverside	118	60.20	207.68	20.03	1.76	57.70
TUTAL: (6 species)	196	100.00	1036.64	100.00	•	ı
Game Fish Other Species	0 196	100.00	1036.64	100.00	1 1	1 1

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Appendix B-3-6 Results of gill net sampling, February 3,1973 at Lake Livingston Dam and the Trinity River

gizzard shad river carpsucker 19	77.96	4529.78 5674.92 681.00	7		
cker opd cotfish		674. 681.	•	51.	3.9
		681		298.68	220.25
	-		1.26	81.	7. E
VOLLOW DULLERGA CACAASI	7.7	27.	•	27.	3.2
black bulinead catitism	7.7	57.	1.05	67.	0.1
black crappie	80.6	0	3,46	97.	5.2
yellow bass		, L	<.50	5	3.3
golden shiner		`~	• •	13.	7.0
bluegill sunfish lake chubsucker		27.	<.50 <.50	7.	3.2
es) 130	100.00	53985.32	100.00	1	i
Game Fish Other Species 129	.77	567.50 53417.82	1.05	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Appendix B-3-7 Results of seine sampling, February 24,1973, Richland Creek at Texas state Highway 488 bridge

		Total Wt. Average Wt.	Total Wt.		Average Wt.	Average
	Number	% of Number	(grams)	% Weight	(grams)	יייין אריייין אריייין
	161	100.00	4.48	100.00	.52	5 th 2
red Shiner			a = 0	100.00	1	ŧ
TOTAL: (1 species)	161	00.001	•			
•	c	c	0	0	ı	
game Fish Other Species	161	100.00	ከ•ከ8	100.00	ŧ	

Appendix B-3-8 Results of seine sampling, Pebruary 24, 1973, Trinity River at Texas State Highway 287 bridge

. The first that the first that the first the two tests the first that the two tests the first the first that t		Total #t. Average Wt. Average	rotal Ht.	4	Nverage Wt.	Average
Common Name	Number	r % of Number (grams) % Weight (grams) Leagen (mm)	(grans)	* Weight	(grams)	mah mahasan
golden skiner 1	1	100.00	.30	100.00	• 30	340
TOTAL: (1 species)	-	100.00	.30	100.00	ı	•
Game Pish	0	0	0	0	t	i
Other Species	-	100.00	• 30	100.00	ı	t

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Appendix B-3-9 Results of seine sampling, March 4,1973, approximately 6 miles upstream from Texas State Highway 21 bridge near Hidway, Texas

Common	Number	% of Number	rotal #t. (grams)	% Weight	ñverage ¥t. (grams)	Average Length (mm)
l	₩.	<1.0 <1.0	900,	30	0.0	220.00
Diachspotted toputunos gizzard shad	16	2.7	##*E59	10.84	71.7	
red shiner	356	61.0	174.54	6h.	19.1	194.00
mimic shiner	-	<1.0	. 10	. 10	<1.0	•
emerald shiner		<1.0	.10	. 10	6.L.	
qhost shiner	16	2.7	3.36	.21	<1.0	•
bluegill sunfish	Ŋ	<1.0	3.60	.72	<1.0	•
S	S	<1.0	6.70	1.34	<1.0	338.00
bullhead minnow	183	31.0	69.54	• 38	7.6	265.00
TOTAL: (10 species)	585	100.00	911.78	ı	100.00	1
Game Fish Other Species	585	100.00	911.78	1 1	100.00	1 1

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Appendix B-3-10Results of seine sampling, March 4,1973, approximately 8 miles upstream from Texas

Common Name Rumbe	Number	% of Number	Total Mt. (grams)	% Weight	Average Mt. (grams)	Average Length (mm)
1						
	4330	57.2	307.74	.23	8.09	199.00
red shiner	900	, C	189.05	. 19	37.4	234.00
bullhead minnow	טעע טי	0.44	2 C	.53	<1.0	253.00
bluedill sunfish	.	0.1.	40		<1.0	250.00
ghost shiner	7	0.1.	2000	200	1,4	680.00
White crappie	-	<1.0	07.1	> 7 • 7		
				1	100.00	1
TOTAL: (5 species)	2339	100.00	202.84	l		
		•	7	ı	1.5	1
10 mm		\ \ \ \ \ \	07.7		. K	1
	2338	0.66	n 98° 64	t		
Orner Speece						

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Environmental Variables	Effect Of Standing Crop Positive	Negative
Surface Area (in acres)	pickere1** (40)	bullhead catfishes (87) sunfishes (136) black basses (135)
Mean Depth (in feet)	spotted sucher (48) bluegill (129) longear sunfish** (69) redear sunfish (68) sunfishes	longnose gar** (44) carp (100) buffalofishes** (47) channel catfish (109) largemouth bass (134) white crappie* (102) all sport fishes (139) freshwater drum (57)
Outlet Depth (in feet)	gizzard shad (116) carp carpsuckers (55) buffalofishes* bullhead catfishes catfishes** (124)	spotted sucker**

(continued)
B-3-11
Appendix

rgeno	crappie	l sport fi

(16) 68** flathead catfish spotted gar (31) white crappie* black basses

Water Level Fluctuation

(mean annual, in feet)

redear sunfish* qizzard shad* carpsuckers pickerel* sunfishes

fiathead catfish* spotted sucker* threadfin shad bluegil1

brllhead catfishes*

channel catfish**

Storage Ratio (mean annual) largemouth bass

redear sunfish

longear sunfish

black crappie (98) redear sunfish

> (at mean pool level) Shore Development

channel cattish*

carp

white bass (73) bluegill

buffalofishes**

all sport fishes

white crappie

all sport fishes* longnose gar gizzard shad** threadfin shad carpsuckers** carp**

white bass**

cat fishes**

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black crappie* spotted sucker buffalofishes Warmouth (99) spotted gar pickerel bluegill

> rotal Dissolved Solids (in ppm)

Appendix B-3-11 (continued)

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green sunfish**
largemouth bass*
white crappie

threadfin shad**
channel catfish*
white bass
bluegill*
redear sunfish**

(frost-free, in days)

Growing Season

pickerel* spotted sucker\$ buffalofishes

Age of Reservoir (in years)

buffalo fishes channel catfish** white bass freshwater drum**

black basses**
black crappies

pickerel carp cullhead catfishes** flatheat catfish bluegill** sunfishes* spotted bass* (59)

Common Name: Largemouth Black Bass

Habitat Preference: This species is widely distributed in rivers and lakes of East Texas and prefers areas of submerged aquatic vegetation, logs, stumps, brush, and underwater rock formations. It is typically found in relatively deep, quiet, soft-bottomed areas. Upper and lower lethal temperatures for this species acclimated at 20°C are 32.5°C and 5.5°C, respectively (Brett, 1956).

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Reproduction: This species normally begins spawning in Texas in early spring (February-May) when water temperatures approach 60°F. Circular nests are usually constructed in water 2-8 feet deep on practically any substrate other than soft mud bottoms. In heavily wooded lakes this species has been known to spawn on the top of submerged logs. Females deposit 2000-25,000 eggs in the nest and are then driven away by the male. Fry hatch in 5-10 days, depending upon water temperature, and are then guarded, in a school, by the male for several days. This species may reach sexual maturity and spawn at one year. Life expectancy is estimated to be 6-10 years. Aveaage size is 2-6 pounds.

Pood habits:

Young: plankton, small insect larvae, small fish, insects,

crayfish, frogs

Adults: larger fish, frogs, crayfish, snakes, etc.

<u>specializations</u> (Morphological, Physiological, Behavioral, etc.): Protective coloration consisting of bars, blotches, and generally dark color pattern provides concealment; streamlined body for speed in swimming and large mouth for ingestion of large prey; adults may form schools which feed en masse on schools of gizzard and threadfin shad; highly predaceous.

<u>Economic Value:</u> This is the most popular and most soughtafter game fish in Texas. This species is also quite edible. Nore time and money are spent in quest of this fish than any other species of freshwater fish in the state. No commercial fishery exists for this species.

<u>Probable Response to Channelization:</u> This species is adaptable to lake-type sluggish water habitats and probably will not be extremely adversely affected by the

impoundments and canal <u>if</u> suitable spawning substrates are made available <u>or</u> if sufficient numbers of young can be reared and stocked in the system by Texas Parks and Wildlife Department hatcheries located throughout the state. Like most other game fish species the population size will decline as the canal-impoundment system ages. Therefore, short-term effects will probably be positive, while long-term effects will be negative.

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Common Name: Spotted Bass

Habitat Prefere. 1: This species prefers much the same type environment as the largemouth bass, but is generally considered to be a more riverine species. In addition, it seems to prefer clearer lakes and streams than the largemouth black bass. This fish is native to rivere, natural lakes, and streams of East Texas. From previous work (Hall, 1972) this species appears to be far less numerous than the largemouth bass in the Trinity River drainage system.

Reproduction: Little is known regarding the spawning habits of this species other than the fact that it is a nest-builder. Data from McCune (1971) indicate that this species migrates upstream in the spring to spawn in small. tributaries of lakes and rivers. Spawning probably occurs at an earlier date than for the closely related largemouth bass. Average size is usually 1-2 pounds with a maximum of about 5-6 pounds.

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<u>Food Habits:</u> Young feed on plankton, insect larvae, small fish, and insects, whereas adults feed primarily on larger fish, crayfish, and frogs.

<u>Specializations (Morphological, Physiological, Behavioral, etc.):</u> Same as for largemouth bass in regard to color pattern, speed, and large mouth, but no data are available on schooling habits in this species.

Economic Value: Highly valued as a food and game fish. No commercial fishery exists for this species.

Probable Response to Channelization: The initial impact on this species will probably be negative since it, presumably, prefers flowing, clear water for day-to-day living and spawning. Locks and dams may impede migration and the lentic nature of the canal and its impoundments may not be conducive to adequate spawning in this species. As with the largemouth bass, the long-term effects will probably be negative.

Common Name: Bluegill

Habitat Preference: This fish prefers shallow, weedy areas, but will thrive in a variety of habitats. It is widely distributed in the U.S. And is native to the Trinity River system. Adults usually show a preference for deep water, while the young frequent shallower areas. Upper and lower lethal temperatures for this fish acclimated at 20°C, are approximately 31.5°C and 5.0°C, respectively (Brett, 1956).

Reproduction: This species spawns over an extended period of time, beginning when water temperatures reach 65°F and continuing on into the tall. It is quite prolific and overpopulation and stunting may result from the high reproductive potential of this species. Nests are typical "sunfish-type" circular nests and are built on sand or gravel shoals. It is a colonial nester with beds of 100 or more in some areas. A mature female may spawn 100,000 eggs per spawning season. This fish may attain a length of 12 inches and a weight of 1 pound, although the average size is much smaller.

<u>Pood Habits:</u> Young normally feed on plankton, small insects, and algae, while adults take insects, crayfish, small fish, and various types of aquatic vegetation.

Specializations (Morphological, Physiological, Behavioral, etc.): One of the most advantageous traits of this species is its high reproductive potential. In addition, males may mate with several females over the extended spawning period. Protective coloration of dark vertical bars on the sides of the body provides for concealment in aquatic vegetation. This species also utilizes many types of food items in its diet.

Economic Value: Highly valued as a food and game fish by many anglers. This is a sporty, but small fish with firm, tasty flesh. No commercial value because of its small size.

<u>Probable Response to Channelization:</u> Probably negative since sand and gravel substrates normally used in spawning may be lacking. The demersal ("heavier than water") eggs produced by this species are not suited for development in mud or silt substrates. Also, if shoreline aquatic vegetation is removed from the canal, little or no protection will be available for this species. High

reproductive potential may partially compensate for some of the handicaps above.

Common Name: Redear Sunfish

<u>Habitat Preference</u>: The redear sunfish generally prefers deep waters of lakes and streams. This fish also apparently prefers areas of lakes and streams with limited amounts of vegetation. This species is common the Trinity River system (Hall, 1972).

Reproduction: This fish generally spawns in early spring in deeper water than the bluegill and probably does not spawn over a prolonged period of time as does the bluegill. It is a colonial nester and congregates in large schools for spawning. The redear does not overpopulate as readily as the bluegill. Redears may attain a length of 12 inches and a weight of 2 pounds.

<u>Pood Habits:</u> Young feed on plankton and adults take snails, bottom organisms, and small fishes.

Specializations (Morphological, Physiological, Behavioral, e.c.): This is one of the larger "panfishes" so it is probably not as susceptible to predation as many of the smaller sunfishes. Colonial nesting facilitates reproduction.

Economic Value: Highly desirable food and sport fish. Relatively large size and firm, tasty flesh make this fish one of the most sought after species of the "cane pole" crowd. No commercial value.

<u>Probable Response to Channelization:</u> Probably negative because of the spawning habitat requirements and lower reproductive potential than the bluegill.

Common Nore: Black Crappie

Habitat Preference: This fish is predominately limited to the clear acid waters of East Texas and is typically found around submerged logs, brush, stumps, and aquatic vegetation. It is common in the Trinity River drainage system, although it is less numerous than the closely related white crappie. Reproduction: Black crappie readily overpopulate waters resulting in large numbers of stunted fish. Spawning occurs in March-April in East Texas waters. Nests are typical circular "sunfish-type". A 10-inch female may spawn 14,000 eggs per spawning season. Water temperatures of approximately 58-64°P are required for spawing. Sexual maturity is usually attained at 2-3 years. Black crappie may nest in gravel areas or on bottom materials muddier than those acceptable to other sunfishes (Eddy and Surber, 1947).

<u>Pood Habits:</u> Young usually feed on plankton, small fish, and insects while aquatic and land insects, larger fishes, and crustaceans normally are taken by adults (Harlan and Speaker, 1956; Sigler, 1959). This species is highly predaceous and apparently competes more with the largemouth and spotted basses than with other sunfishes.

<u>Specializations (Morphological, Physiological, Behavioral, etc.):</u> Probably a colonial nester (although data are lacking); adaptable in its food habits; normally found in large schools; quite prolific; dark color and blotches on the sides of the body also provide concealment.

<u>Economic Value:</u> Highly valued as a food and game fish. Crappies are the largest of the so-called "panfishes" and are readily taken by the angler during the spring spawning season. No commercial value.

<u>Probable Response to Channelization:</u> This species adapts well to a lake-type environment and probably would not, initially, be extremely adversely affected by channelization <u>if</u> suitable spawning substrates were made available. Removal of all shoreline brush and vegetation would be detrimental to this species. The long-term effect is negative, as with most other game and sport species.

PISH SPECIES PROPILE ¢6

Common Name: White Crappie

<u>Mabitat Preference:</u> White crappic tolerate turbid conditions better than black crappie (Neal, 1963). They are also generally more tolerant of warm, sluggish waters than black crappie. White crappie usually predominate in waters with pH values over 7.0 (Toole, 1950). They are fond of cover such as aquatic vegetation, logs, brush, etc. They are found in both flowing and still waters. This species is quite common in the Trinity River system.

Reproduction: This fish usually spawns in East Texas from March-July beginning when water temperatures reach 64-68°P. White crappie often spawn near brush piles, stumps, or rock outcroppings (Toole, 1950), but they seem to prefer to deposit their eggs on plant materials (Hansen, 1951; Whiteside, 1964). Sexual maturity is usually attained in 2-3 years. A 10-inch female may produce 25,000 eggs per spawning season. This species has a tendency to overpopulate and become stunted (Goodson, 1966).

<u>Pood Habits:</u> Zooplankton, crustaceans, insects and fishes are commonly eaten by both young and adults (Harland and Speaker, 1956; Sigler, 1959). Growth rates of white crappie are significantly reduced in turbid waters (Hall, et al., 1954).

Specializations (Gorphological, Physiological, Behavioral, etc.): This species is very prolific and adapts well to alkaline lake waters. They also form schools and are able to remain active and feed at low temperatures (Goodson, 1966). This species is also able to tolerate high water temperatures in southern latitudes. This fish is also adaptable in its food habits and is highly predaceous.

<u>Boonomic Value:</u> Highly valued as a food and game fish. Easily caught by anglers during the spring spawning season and at night, during summer, under lanterns and floodlights. No commercial fishery exists for this species.

<u>Probable Response to Channelization:</u> A sustained white crappie yield can be expected <u>only</u> if adequate cover is retained in the canal system. If this requirement is met

and if a large forage fish population (e.g., threadfin shad) is present in the system this species should thrive. High turbidity will favor this species to the exclusion of the black crappie. The long-term effect, as for the other game fish species, appears to be negative.

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Common Name: White Bass

Habitat Preference: This species thrives in rivers and larger lakes of East Texas and is common in the Trinity River system. It prefers open water of lakes over sandy shoal areas and ridges. Young are often found in shallow inshore areas. The white bass was originally found in Toxas only in Caddo Lake, but has been widely distributed and is now found statewide (McCune, 1971).

Reproduction: The white bass is very prolific and a mature female may produce up to 1 million eggs at one spawning (Noore, 1963). When thowing tributaries are available this species prefers to migrate upstream to spawn. It does, however, spawn over windswept sand and gravel areas of lakes. Fry hatch in 2-3 days and usually reach a size of 8-9 inches the first year.

<u>Pood Habits:</u> Adults feed primarily on forage fishes such as gizzard and threadfin shad. Fry feed on plankton, gradually changing to a diet of insects, crustaceans, and fish as they mature. Life expectancy is usually 3-6 years. Average size usually ranges from 1-1-1/2 pounds with a maximum of approximately 5 pounds.

<u>Specializations (Morphological, Physiological, Behavioral, etc.):</u> This species is well-known for its schooling behavior. Schools often feed <u>en masse</u> on schools of forage fishes. The white bass is not easily reared in hatcheries, but stocking is usually unnecessary because of the high reproductive potential. This is a voracious, fast-swimming, fast-growing species.

<u>Boonomic Value:</u> This species is highly valued as a game and food fish by the fisherman. The flesh is firm and edible. It is readily taken by the sport, fisherman on jigs, spoons, spinner baits, minnows, etc. No commercial value.

<u>Probable Response to Channelization:</u> This species adapts well to lake-type: habitats, especially when numerous tributaries are present which allow spawning. If access to such tributaries is allowed in the construction of the canal-impoundment system this species will probably thrive

since it is not highly dependent upon shoreline vegetation or other underwater cover. This is an open-water fish with an extremely high reproductive potential, both of which attributes will be advantageous in adapting to a non-flowing or moderately-flowing canal-impoundment system.

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Common Name: Striped Bass

Habitat Preference: This species is an anadromous saltwater fish native to the Atlantic coast of the U.S. There it normally migrates upriver during the spawning season. Striped bass are now present in the Trinity River system where they have been stocked by the Texas Parks and Wildlife Department. This is an open-water, deep-water species of lakes and large rivers.

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Reproduction: Spawning occurs in spring in flowing water of streams. Plowing water is necessary to keep the eggs in motion until they hatch, therefore this species requires a flowing river length of approximately 50 miles for successful reproduction. Water temperature of 60°P or slightly higher is required for spawning. Eggs are broadcast in areas with considerable current (Raney, 1952). Sixty hours after fertilization, at 64°F, the eggs hatch. The young reach a length of 9mm ten days after fertilization (Pearson, 1938).

Food Habits: Young striped bass normally feed on small fish and crustaceans while adults feed prinarlly upon clupeid (shad-like) fishes (Goodson, 1964; Stevens, 1958).

Specializations (Morphological, Physiological, Behavioral, etc.): This species adapts well to freshwater environments and is able to feed on large forage fishes (e.g., gizzard shad) thus occupying an otherwise vacant niche in most inland freshwater lakes. It is tolerant of a wide range of temperatures. Like the white bass, it forms schools and members of a school normally feed en masse on schools of forage fishes. This is a large (30-40 pounds), fast-growing, fast-swimming, highly predaceous fish.

Economic Value: The striped bass is a highly valued food and game fish in areas where a sufficiently large population density permits a fishery. This species currently is of limited value in the Trinity River system because of its scarcity. No commercial fishery exists in the Trinity River, at present, for this fish.

Probable Response to Channelization: Debatable. Spawning is probably impossible now, before channelization, and further impoundment and consequent reduction of flowing water will further reduce the possibility of spawning. The only method for developing a striped bass fishery in the Trinity River system is by periodic stocking. A high mortality rate in fingerlings is common, therefore it will be difficult to establish this fish within the system. Since the striped bass is an open-water species it may adapt well to the larger lakes of the system and may survive in the deeper waters.

Common Name: Channel Catfish

Habitat Preference: The channel catfish prefers flowing water of rivers and streams but also adapts well to lake-type environments. It may migrate upstream in swift water since it tends to seek out channels and reacts positively toward currents (Boore, 1963). This fish is common in the Trinity River system.

Reproduction: Spawning usually occurs from May-July in Texas as the water temperature reaches 75°F (McCune, 1971). Spawning areas are sought under large rocks and ledges, in hollow logs, or in holes swept out in mud banks. Artificial containers have also been used with success in fish hatcheries. The number of eggs spawned by a sexually mature female usually ranges upward from 10,000. The male cares for the eggs after spawning.

<u>Food Habits:</u> Omnivorous. The channel catfish feeds on practically any type of organic matter, dead or alive. Common food items taken include fish, freshwater mussels, algae, pondweeds, snails, insects, crayfish, mice, cotton rats, toads, frogs, etc.

<u>specializations (morphological, Physiological, Behavioral, etc.):</u> The diverse diet is advantageous to this species. The body is streamlined and, thus, well-adapted to fast-flowing waters. Care of the eggs by the male insures a high hatch rate. This species is also quite tolerant of high temperatures and low oxygen levels.

<u>Economic Value:</u> This is one of the most important food and game fishes of the Trinity River system. It is taken year-round by sport and commercial fishermen.

Probable Response To Channelization: As with the other game fish populations there should be a positive effect initially, but a gradual decline in numbers as the impoundments age. Reduction in the number of possible spawning sites in the canal proper may be partially alleviated by the increased number of sites in the larger reservoirs of the system. Migratory habits of this fish will probably assure dispersal throughout the system. The fish is common in the system now and no stocking will be necessary to establish it in the impoundments.

Common Name: Blue Catfish

<u>Habitat Preference:</u> This species seems to prefer deeper waters of rivers and lakes, coming into the shallower backwaters in the spring (Hoore, 1963). It is relatively common in the lower Trinity River, but is rarer upstream. This fish is mative to the larger rivers of Texas and has been stocked in many Texas lakes (McCune, 1971).

Reproduction: Little is known regarding the spawning habits of the blue catfish, but it is supposedly similar to the channel catfish in regard to nest site selection, care of eggs by male, etc. This species spawns in Texas in May and June.

<u>Pood Habits:</u> The blue catfish feeds primarily on fish, crustaceans, insects, aquatic insect larvae, fresh water mussels, and other living or dead materials. This fish may reach a size of 100 pounds or more.

Specializations (morphological, Physiological, Behaviora), etc.): Same as for channel catfish.

Economic Value: This is a highly valued food and game fish, but is less abundant than the closely-related channel caifish. This fish is taken by sport and commercial fishermen in the Trinity River basin.

<u>Probable Response To Channelization:</u> The effects on this fish are debatable due to the lack of data regarding spawning habits, etc., but presumably it will follow the pattern outlined previously for the channel catfish.

Common Name: Flathead Catfish

Habitat Preference: this large catfish is commonly found in the large rivers and lakes of Texas and is very common in the Trinity River system. Flatheads generally prefer sluggish, deep waters which have an abundance of logs, undercut banks, brush, etc.

Reproduction: the spawning period of this species, in Texas, usually begins in late May and may extend through August. Males select hollow logs, underwater caves, or rock crevices as nesting sites. The female then deposits her eggs and the male actively defends them until the fry hatch (usually 4-6 days, depending upon water temperature). The fry disperse almost immediately after hatching (McCune, 1971).

<u>Food Habits:</u> fingerlings feed on insect larvae for approximately the first year with a gradual transition to a fish diet. Adults feed almost exclusively on small fish. Adults reach 100 pounds or more and may live 15-20 years or longer.

<u>specializations</u> (morphological, Physiological, Behavioral, etc.): care of the eggs by the male reduces predation and insures a high hatch rate. The mottled color pattern, particularly in the young, also provides concealment from predators. This species adapts well to large lakes.

<u>Reconomic Value:</u> this is a highly valued food fish because of its large size, excellent table qualities, and ease of capture (via trotline, hoop net, gill net, rod and reel, etc.). This is one of the most important commercial fishes of the Trinity River system.

Probable Response To Channelization: possibly few adverse effects will accrue to this species since it is adaptable insofar as diet and type of aquatic habitat are concerned. Possible adverse effects may result, however, if suitable nesting sites are not available in the canal-impoundment system. Complete clearing of all timber, removal of shoreline vegetation, and elimination of undercut banks may significantly reduce possible spawning sites for this

species. Some progress has been made in rearing this species in fish hatcheries, therefore an adequate population could, perhaps, be maintained by a stocking program if necessary.

Common Name: Common Carp

Habitat Preference: This species is found throughout the Trinity River system. It may be found in the mainstream, tributaries, lakes, and oxbows. It was introduced in Texas in the late 1800's (McCune, 1971). This is primarily a warm-water, pollution-tolerant fish. Some preference is shown for sluggish water over fast-flowing streams.

Reproduction: This fish is very prolific. Small (3-5 pound) females may spawn up to 700,000 eggs per spawning season (Moore, 1963). Eggs are strewn about in shallow weedy water. The eggs stick to aquatic vegetation and no care is provided for eggs or young.

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<u>Pood Habits:</u> The fry feed on plankton while adults are ominvorous. Organic detritus and small bottom organisms are commonly taken as well as small fish and other small, free-swimming aquatic organisms. Growth is usually quite rapid with weights of 50 pounds or more attainable. This species may live up to 47 years in captivity (McCune, 1971).

<u>specializations (morphological, Physiological, Behavioral, etc.):</u> Omnivorous food habits, high reproductive potential, and the ability to live in practically any kind of aquatic habitat (including even brackish water along the Texas coast) make this one of the hardiest and most widespread fishes in the Trinity River system.

<u>Bconomic Value:</u> This species is generally held in low esteem, but sport and commercial fishermen do frequently take this species. The numerous sharp intermuscular bones and "muddy taste" usually deter the would-be consumer, but it is eaten by some. This fish is large; easily taken in gill, hoop, and trammel nets; and is marketed by commercial fishermen along the lower Trinity River.

<u>Probable Response To Channelization:</u> This species will probably thrive in a canal-impoundment system, since it is highly adaptable to nearly all aquatic habitats.

Common Name: Smallmouth Buffalo

<u>Habitat Preference</u>: This species normally prefers deeper waters of rivers and lakes, but generally shows a preference for flowing water (Moore, 1963). This fish is common in the mainstream and oxbow lakes of the lower Trinity River.

Reproduction: Spawning occurs in the spring at water temperatures of 60-65°F. The eggs are randomly strewn in shallow water over aquatic vegetation or mud bottoms. The eggs hatch in 7-14 days. No parental care is provided during or after the incubation period. Large numbers of eggs are produced by mature females.

<u>Food Habits:</u> The diet includes algae, seeds of aquatic plants, small nollusks, insect larvae, and numerous species of bottom organisms. Maximum size for this fish is approximately 15-20 pounds.

<u>Specializations (morphological, Physiological, Behavioral, etc.):</u> The diverse diet is beneficial to this species as is the high reproductive potential.

Economic Value: his is one of the most important commercial fishes of the lower Trinity River. It is occasionally taken by anglers, but more often is taken by commercial fishermen using gill, hoop, and trammel nets. This fish has numerous intermuscular hones, but the flesh is firm and tasty.

<u>Probable Response To Channelization:</u> rthe overall impact upon this species will probably be negative since it seems to prefer deep, flowing water lather than sluggish, shallow waters. It apparently does not adapt well to large impoundments. This species is currently neither propagated nor stocked by the Texas Parks and Wildlife Department, therefore natural stocks may not be able to establish and maintain large populations in the canal-impoundment system.

Common Name: Preshwater Drum

<u>Habitat Preference:</u> Ubiquitous. This fish adapts well to impoundments and is found in all major rivers of Texas, including the Trinity. This fish is usually found in medium to shallow depth water with soft bottoms (Minckley, 1963).

<u>Reproduction:</u> No nest is constructed by this species. The pelagic (free-floating) eggs are broadcast over gravel or clay bottoms. Drum usually spawn in large schools during thay and June. No care is provided for eggs or fry.

<u>Food Habits:</u> The fry normally feed on plankton while adults feed upon aquatic insects, crustaceans, snails, clams, small fish, etc. (Moore, 1963). This fish may attain a weight of 40 pounds or more.

<u>Specializations (morphological, Physiological, Behavioral, etc.):</u> This fish is highly adaptable to diverse aquatic environments. The diverse diet and high reproductive potential are also advantageous traits.

Economic Value: Firm, white flesh with few bones makes the demand for this fish quite high. This is one of the top commercial species taken from the Trinity River and is marketed under the names of "gou", "gasper-gou", "rockfish", etc. This fish is also taken by sport fishermen on live baits, such as minnows and worms. The large size and ease of capture make the freshwater drum one of the highly sought commercial fishes of the river.

Probable Response To Channelization: Probably positive. This fish adapts well to impounded water and is found from the headwaters of the Trinity to the Gulf. The diverse diet, tolerance of turbid water, and high reproductive potential are factors which should favor this species in a canal system.

PISH SPECIES PROPILE #15,16

Common Name: Longnose Gar & Alligator Gar

Habitat Preference: Gars, in general, prefer warm lakes and slow-moving streams. During the summer they frequent the surface waters and lie motionless for minutes at a time (Suttkus, 1963). In streams below barriers (such as Lake Livingston Dam) large numbers of longnose gar can be seen basking or surfacing for air on warm sunny days. Alligator gars may winter in deep holes of the lower Trinity River or Trinity Bay (Lloyd Brannen, pers. Comm.). Both species are very common in the Trinity River.

Reproduction: Spawning takes place in fresh water from April to mid-July. Gar move into the shallows to spawn with each female accompanied by 1-4 males. Eggs are strewn about and fertilization is external. Both eggs and milt are poisonous. The eggs are adhesive and adhere to the substratum. No care is provided for the eggs or young.

<u>Pood Habits:</u> Gar feed primarily on other fishes, most of which are forage fishes such as gizzard shad. In the lower Trinity River blue crabs and striped mullet are common feed items. Garbage has also been reported as part of the diet by Suttkus (1963). Alligator gars weighing over 300 pounds have been reported and longnose gars over 100 pounds are commonly taken from the lower Trinity River.

Specializations (morphological, Physiological, Behavioral, etc.): Gars are ancient fishes which show a multitude of advantageous traits such as thick, ganoid scales which completely cover the body; an air-breathing, highly vascularized swimbladder; numerous large, sharp teeth; high reproductive potential; poisonous sex products; diverse diet; etc.

<u>Economic Value</u>: Both longnose and alligator gars are commonly taken and marketed by commercial fishermen along the lower Trinity River. These are very important commercial fishes and many are processed into fish sticks, fish cakes, etc., by various seafood processors (Hall, 1972).

Probable Response To Channelization; The longnose gar thrives in a shallow lake-type environment, therefore its response should be positive. The alligator gar, however, does not appear to be quite as adaptable to large inpoundments and thus may not fare quite as well as the longnose and spotted gars. Both the longnose and alligator gar, however, should establish large populations within the confines of the canal-impoundment system.

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Common Hame: Gizzard Shad & Threadfin Shad

<u>Habitat Preference</u>: Both these species are commonly found in flowing, as well as sluggish waters and both abound in the Trinity River system. Both appear to favor open, deep, clear water; and abrupt shoreline, little or no shoreline vegetation, and waters which contain large plankton populations (Miller, 1960).

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Reproduction: Spawning season for both species is from April-July at temperatures ranging from 50-70°F (Jester and Jensen, 1972). Various substrates such as sandy, gravel-covered bars; silt beds; etc, are utilized. Water depths used for spawning range from 6 inches to 50 feet. Eggs are adhesive and some sink to the bottom while others float. Spawning normally occurs in large schools with much rolling and tumbling in evidence. No parental care is provided for eggs or fry. Mature females may spawn up to 70,000 eggs per season.

<u>Pood Habits:</u> Numerous food items are taken by these filter-feeding fishes, such as algae, cladocerans, plant debris, water mites, aquatic insect larvae, small mollusks, small fish, etc., (Jester and Jensen, 1972). Gizzard shad may attain a length of 18 inches while threadfin shad seldom exceed 12 inches.

Specializations (morphological, Physiological, Behavioral, Etc.): The tremendous reproductive potential and diverse diet are the major factors which assure the success of these two species. Schooling may also be advantageous.

Economic Value: These small, bony fishes are not usually eaten by humans, but they do serve as a basic link in the aquatic food chain. Both are excellent forage fishes and serve in the diets of most, if not all, game fishes (and some rough fishes) in the Trinity River system. No commercial fishery or sport fishery exists for these two species.

<u>Probable Response To Channelization:</u> Probably positive. Pluctuating water levels favor gizzard shad production and and increase in total dissolved solids favors both species

(Jenkins, 1970). Both species should flourish in a canalimpoundment system. The richness (high organic content) of the waters of this system should assure good growth conditions for both species. 是一种,我们是一个人,我们也是一个人,我们也是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们是一个人,我们也是一个人,我们也是一个人,我们

Large mammals and mammal signs along a 1,500 meter transect at Study Areas 1-10 on censuses Appendix B-4

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swamp rabbit Sylvilagus aquaticus	7	10			4	13		·		
cottontail rabbit S <u>XLvilagus floridanus</u>	1	2			4	9				
fox squirrel Sciurus niger	2	9								
fox and/or gray squirrel						•	ω.	11		
southern flying squirrel							n	8		
beaver <u>Castor canadensis</u>			H	2					1	2
nutria <u>Mvocastor coypus</u>			н	7						
coyote <u>Canis latrans</u>	1	τ			1	m				
coyote and/or dog			7	51						
gray tox <u>Urocyon cinercoargenteus</u>	-1	2	2	2	1	1				

Diggings, gnawings, or food remains.

Consused on Docember 3, January 15, March 17, and May 12 1972-1973.

Appendix B-4 (cont.)

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Average Number Per Census	7.	2	15	15.0	9	6.2	8	8.8	7.	7.0

1 Diggings, gnawings, or food remains.

(cont.) Appendix B-4

では、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本のでは、日本の

Study Area 2*			Maximum	num and	Total	Numbers	e r			
•	Indivi Seen or	Individuals een or Heard		f	ŧ) 0	N to a K	+		1 20
Species	Max.	Tot.	Ma	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
wnssodo										
Didelphis marsupialis			2	3						
armadillo Lasypus novemcinctus	1	1	ю	ស			<u></u>		'n	۵
swamp rabbit Sylvilagus aquaticus	7	ю	5	13	18	37				
fox squirrel Sciurus niger	. 5	3								
fox and/or gray squirrel			2	12			r.	11	11	29
beaver Castor canadensis			4	S	1	. 1			2	4
nutria Myocastor coypus									2	6
coyote Ç <u>inis latrans</u>					3	4				
coyote and/or dog			'n	13				i		
gray rox <u>Urocyon cinereoargenteus</u>		·	Н	2						
raccoon Frocyon lotor			7	10	н	Н				
Total		7		63		43		13		44
Average Number Per Census	2.	3	2.1	0	14.3	. 3	4	4.3	14	14.7

1 Diggings, gnawings, or food remains.
* Cunsused on February 24, March 18, and April 7, 1973.

MONOTORING PROPERTIES OF THE PROPERTY OF THE P

Appendix B-4 (cont.)

Study Area 3*			Maximum	กนะ ลกส์	1 Total	Numbers	ers			
	Indivi Seen or	Individuals een or Heard			1		Nests	ts	Other	er 1
Species	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
opossum Didelphis marshrialis			,	7		,				
armadillo						,				
Dasypus novemcinctus	4	,	,	19			4	11	13	37
swamp rabbic Sylvilagus aguaticus	н	æ	Ŋ	7	7	24		•		
cottontail rabbit Sylvilagus floridanus	2	2	2	3	2	6				
fox squirrel <u>Sciurus niger</u>	5	8								
fox and/or gray squirrel							11	30	8	12
beaver <u>Castor canadensis</u>			4	8		·	3	. 7	10	25
eastern woodrat Neotoma floridana							2	ю		
coyote <u>Canis latrans</u>	9	11			3	8				
coyote and/or dog			14	35						
gray tox <u>Urocyon cinereoargenteus</u>			2	2						
Procyon lotor			6	22	1	1				

Diggings, gnawings, or food remains.

e e e e estado e entre entr

^{1972-1973.} Censused on October 13, December 2, January 28, March 3, and May 12,

Appendix 2-4 (cont.)

Study Area 3			Maximum	num and	1 Total	Numbers	ers			
· (Cont.)	Indiv	וייתו			ŀ		;			-
	zo uaac		- 1	:KS	reces	S	Nests	ts	Other	er
Species	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
					•					
striped skunk										
	п	73	7	12						
bobcat										
Lynx rufus			Н	8						
white-tailed deer										
Odocoileus virginianus			2	4						
										
Total		33		120		4.5		51		74
Average Number Per Census	9	9.9	24	24.0	0.6	0	1	10.2	1,	14.8
									-	

Diggings, gnawings, or food remains.

Appendix B-4 (cont.)

Study Area 4*			Maximum	num and	1	Total Numbers	ers			
	Indivi Seen or	Individuals een or Heard		1	1	S	Nests	ts	Other	9 r 1
Species	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.	мах.	Tot.
opossum Didelphis marsupialis			. 2	3						
armadillo Dasypus novemcinctus			7	1.7					1.0	7.
swamp rabbit Sylvilaqus aquaticus	4	7			8	25				
cottontail rabbit Sylvilagus floridanus	. 5	က								
fox squirrel Sciurus niger	9	10								
fox and/or gray squirrel							Q	15		
beaver Castor canadensis			7	н					7	15
eastern woodrat Ngotoma floridana							٦	m		
coyote Çanis latrans	3	4			-1	2				
coyote and/or dog		•	4	10						
gray fox Urocvon cinereoargenteus			• -	7						
raccoon <u>Procyon lotor</u>			12	29	-	-				

Diggings, ganwings, or food remains.

1972-1973. * Censused on October 8, November 11, April 8, and May 13, THE STATE OF THE PROPERTY OF T

Appendix B-4 (cont.)

The second secon							,			-
Study Area 4			Maximum	num and	1 Total	Numbers	ช ห เ			
(Cont.)	Seen or	Individuals	L.,		1				. 6	-
	•	- 1		7 4	s a D a 4	S	Nests	r.s	Other	e r
Species	мах.	101	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
striped skunk										T
Mephitis mephitis			н	7					,	
mink										
Mustela vison			Н	~						
bobcat										
. snjna xuki			Н	н						
white-tailed deer			-							T
Adocoileus virginianus	8	19	11	33	ĸ	0		_		
Total		43		98		37		18		46
Average Number Per Census	10	10.8	2	24.5	6	9.2	4	.5	1	11.5

Diggings, gnawings, or food remains.

HERONOGIA STATE OF CASE SECTION OF THE STATE OF THE SECTION OF THE

Study Area 5*			Maximum	num and	Total	. Numbers	ers			
	· Individuals Seen or Hear	duals Heard	Tracks	ห	səsəg	0	Nests	ts	Other	erı
Species		ı	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	100
•										
eastern mole			-							
armadillo									1	
Dasypus novemcinctus	9	8	3	9			9	13	7	1.7
swamp rabbit Sylvilagus aguaticus	τ	7			က	Q				
cottontail rabbit					·	r				
Sylvilagus Floridanus	4	5			7	7				
fox and/or gray squirrel							7	15		
plains pocket gopher Goomys bursarius						•	12	31		
coyote <u>Canis latrans</u>	г	г				н	Э			
covote and/or dog			9	17						
raccoon .Rxocyon lotor			4	თ	٦	1				
striped skunk Mophitis mephitis			-	-1						
white-tailed deer .Odocoileus virginianus	æ	12	21	53						
Total		27		87		12		59		17
Average Number Per Census	9	6.8	2.]	21.8	(*)	3.0		14.8		4.2

Diggings, gnawings, or food remains

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Censused on January 14, February 25, March 25, and April 19, 1973.

Appendix B-4 (cont.)

Study Area 6*			Maximum	กนท ลกส	1 Total	Numbers	ers			
•	Indivi Seen or	iduals r Heard	Tracks	1	1	. 0	Nes	ts	Other	er 1
Species	мах.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.	Мах.	Tot.
opossum Didelphis marsupialis			7	٦						
armadillo <u>Dasypus novemcinctus</u>	1	н	3	S			3	7	5	10
swamp rabbit Sylvilagus aguaticus	2	4			7	13				
cottontail rabbit Sylvilagus floridanus	. 2	3			2	ß				
fox and/or gray squirrel							9	13	2	2
southern flying squirrel Glaucomys volans						٠			Э	4
coyote Cınis latrans					2	2				
coyote and/or dog			6	19						
raccoon Rrecyon <u>lotor</u>			9	14						
striped skunk Maphitis mephitis	2		2	2						
white-tailed deer 24220ileus virginianus			8	22	4	7				
Total		10		63		32		20		16
Average Number Per Census	2	٠.5	1.5	5.8		8.0		5.0	4	0.

Diggings, gnawings, or food remains.

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^{1972-1973.} * Censused on November 12, January 27, March 4, and March 30,

Study Area 7*			Maximum	กนฑ ลทศ	1 Total	Numbers	ers			
•	Indivi Seen or	Individuals een or Heard		•	l	្រហ	Nests	ts	Other	er 1
Species	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
opossum Didelphis marsupialis	2	2	2	2	н	-1				
armadillo Dasypus novemcinctus	7	8	Э	7			7	19	13	30
swamp rabbit Sylvilagus aquaticus	4	σ	1	2	27	62		•		
cottontail rabbit Sylvilagus floridanus					4	9				
fox and/or gray squirrel	2	က	7	н			8	25	٣	3
beaver <u>, রের tor canadensis</u>						<u> </u>			7	-
coyote <u>Canis latrans</u>	3	3						•		
coyote and/or dog			6	15						
gray fox U <u>rocyon cinereoargenteus</u>			1	7						
raccoon <u>Procyon lotor</u>			11	22						
striped skunk Mephitis mephitis			2	3						
white-tailed deer Odocoilens virginianus.			12	2.1						
Total		25		7.5		69		44		34
Average Number Per Census	9	. 2	18.	8.8	H	17.2	11.0	0.	8	8.5

^{1972-1973.} Diggings, gnawings, or food remains.
 Censused on November 4, November 17, January 20, and March 24,

Appendix B-4 cont.)

Individuals Seen or Heard Tracks Max. Tot. Max. Tot	Study Area 8*			Maximum	um and	Total	Numbers	ers			
B 4 6 12 2 4 1 1 1 2 4 2 4 4 6 6 12 2 4 2 2 4 4 6 6 12 2 6 2 1 2 2 7 2 2 4 4 7 1 1 1 3 3 3 4 4 4 1 1 1 1 1 2 5 12 1 1 1 2 6 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Indiv.	lduals r Heard		I		ທ	N Re S	t s	oth	Other 1
e1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Species	1 •	1	Ma	Tot.	Max.	10	Max.	ot t	Max.	Tot.
e1 1 1 1 2 2 2 3 3 4 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						·					
e1 1 2 6 12 2 1	opossum Didelphis marsupialis			1	7						
e1 1 2 1 2 1 2 1 2 1 1 2 1 1 1 1 1 1 1 1	armadillo Dasypus novemeinetus	4	9					7	4	7	17
idanus 1 2 1 1 2 1 2 2 2 2 2 2 2 2 2 3 4 4 4 4 4 4 4 4 4 4	swamp rabbit Sylvilagus aquaticus	2	4			9	12				
uirrel 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cottontail rabbit Sylvilagus floridanus	ı	2			н	77				
uirrel 1 1 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 nianus 1 2 3 8 17 8 1 nianus 1 2 2 3 1 1 1 census 5.2 11.8 3.8 4.0	fox squirrel §giurus niger	2	2								
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		τ	τ				•	ស	12		
1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 3 1 2 2 3 1 2 2 3 1 2 2 3 1 2 1 2 2 3 1 2 1 2 1 2 3 4 1 1 2 1 2 1 2 1 2 1 2 2 3 3 3 3 3 3 4 0 1 1 2 1 2 2 2 2 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	nutria Hypga stor c <u>oypus</u>	3	3	4	4						
inianus 1 2 2 3 3 17 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	coyote Çanis latrans	τ	3.			τ	τ				
inianus 1 2 2 3 3 1 1 1	coyote and/or dog			ω	22						
er zginianus 1 2 2 3 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 3 8 4 0 1 3 8 4 0 1 3 8 4 0 1 3 3 6 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	raccoon <u>Procyon lotor</u>			8	17						
5.2 11.8 3.8 4.0	white-tailed deer Odogoileus virginianus		2	2	ĸ						
5.2 11.8 3.8	Total		2.1		47		15		16		1.7
	Average Number Per Census	2	. 2	1,1	8]	8	4	0.	4.	. 2

Diggings, gnawings, or food remains.

^{1972-1973.} Censused on October 21, December 9, April 1, and April 29,

Study Area 9*			Maximum	חחש שוים	Total	l Numbers	ers			
•	Indivi Seen or	Individuals een or Heard	Tracks	•	1	1 02	Nests	t s	Other	e r 1
Species	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
			:							
opossum Didolphis mareinialia			٠	·						
armadillo			1	,						
Dagypus novemeinetus			1	1	2	2	2	2	2	3
swamp rabbit Svlvilagus aguaticus	ល	7			4	1, 3				
gray squirrel Sciurus carolinensis		-								
fox and/or gray squirrel	3	С	٦				3	8		
Draver Cortor considering										,
CT CHORD TO TOO									7	1
esstern woodrat Ngotoma floridana						н	7	4		
coyote					,					
Lanles Lackans					-	7				
coyote and/or dog			9	7						
gray fox Urocyon cinereoargenteus			1							
raccoon <u>Procyon lotor</u>			z,	16						
striped skunk Morbitis moshitis			-	·						
			7	,,						

¹ Diggings, gnawings, or food remains (note: wild pigs abundant)

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^{*} Censused on October 28, February 10, March 10, and April 28, 1972-1973.

Appendix B-4 (cont.

Study Aren 9			Maximum	num and	j	Total Numbers	ers			
(Cont.)	Indivi-		•	, ks)	ຫ ຄ	Nes	ts	Other 1	er 1
8 ಕ್ರಾಂಡಿ 8	Max.	rot.	Σ	Tot.	Max.	ax. Tot.	Max.	ax. Tot.	Max.	Tot.
white-tailed deer Odocoileus virginianus			4	9						
-		-								
Total		11		36		17		14		4
Average Number Per Census	2	2.8	o	0.6	4	4.2		3.5	1.0	0
-										

Diggings, gnawings, or food remains.

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Appendix B-4 (cont.)

Study Area 10*			Maximum	กนุก ละส	1 Total	Tumbers	ers			
	Indivi Seen or	Individuals een or Heard	Tracks	1	Feces	Ŋ	Nests	ts	Oth	Other ¹
Species	Max.	Tot.	Max.	Tot.	Max.	rot.	Max.	Tot.	Max.	Tot.
Didelphis marsupialis armadillo	7									
Dasypus novemcinctus	٦	7	7	က			2	ю	9	13
swamp rabbit										
Sylvilaqus aquaticus	1	Ţ	2	2	2	9				
cottontail rabbit										
Sylvilagus floridanus					7	7				
gray squirrel										
Sciurus carolinensis	1	ī								
fox squirrel										
Sciurus niger	2	2								
fox and/or gray squirrel							α	17		
eastern woodrat										
<u>leotoma floridana</u>					ļ		-1	г		
7		!								
coyote and/or dog			9	6						
Vrocyon cinerecargenteus			1	7						
raccoon										
Procyon lotor			3	9	п	н				
striped skunk Menhitis menhitis			,							
מבחודה שבחודה			7	3						

Diggings, ganwings, or food remains.

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^{*} Censused on December 10, February 11, March 11, and May 13, 1972-1973.

(cont.) Appendix B-4

Study Area 10			Maximum	num and		Total Numbers	ers			
(Cont.)	Individuals Seen or Hear	duals Heard		.ks		S	Nests	t s	Other 1	er 1
Species	Max.	1 1	Ma	Tot.	Max.	Tot.	Max.	Tot.	Max.	Tot.
white-tailed deer										
			3	4						
					·					
		,								
Total		7		28		6		21		13
Average Number Per Census	p1	1.8	7	7.0	2	2.2	2	5, 2	3	3.2
1 Disgings, gnawings, or food	remains	(note:		wild bigs	abundant)	nt).				

wild pigs abundant). Diggings, gnawings, or food remains (note:

THE PROPERTY OF THE PROPERTY O

Species and numbers of small mammals caught in snap traps along a 1,500 meter transect on different dates at Study Areas 1-10 Appendix B-4

まなな情報はは後期の場合の対象という。

}								1
1	Gr	0				0	145	0.0
Habitat	Th	0				0	105	0.0
Ha	¥đ	1				-	200	0.5
					•			
Ţ	Tota	7	,	,		н	450	0.2
3)	May 12	0				0	05	0.0
ea 1	Mar 17	0				0	100	0.0
Study Area 1 Date (1972-197	Jan 15	0				0	100	0.0
Stu Date	Dec 3	τ				1	100	1.0
	Sept 23	0				0	100	0.0
•	Species	cotton rat Sigmodon hispidus				Total Individuals Caught	Total Traps Set	Percent Success

Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields. である。これでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のは、大学のは、大学のは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学のでは、大学ので

Appendix B-4 (cont.)

		Str	Study Area 2 Date (1972-1973)	1973)	τ		Ha	Habitat	~
Species	Feb 24	Mar 18	Apr 7		Tota		wa	Th	n G
cotton mouse Peromyscus gossypinus	0	7	0		1		7	!	1
Total Individuals Caught	0	1	0		٦	<u> </u>	н	:	
Total Traps Set	100	100	100		300	<u> </u>	300	0	0
Percent Success	0.0	1.0	0.0		0.3	0	0.3	!	!

¹Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

Appendix B-4 (cont.)

1	Gr	! ! !	!	-	1 1	!	0	1
Habitat	Тħ	н	4	0	0	Ŋ	130	3.8
He	Wd	0	0	٦	ø	7	263	2.7
	·				٠			
τ	rota	н	4	4	φ	12	393	3.1
3)	May 12	0	0	Ċ	1	1	33	3.0
Study Area 3 Date (1972-1973)	Mar 3	н	0	0	7	ю	100	3.0
dy Ar (197	Jan 28	0	m	0	ĸ	9	100	6.0
Str Date	Dec 2	0	7	7	0	2	100	2.0
	0ct 13		0	0	0	0	09	0.0
	Species	hispid pocket mouse Perognathus hispidus	fulvous harvest mouse Reithrodontomys	white-footed mouse <u>Peromyscus leucopus</u>	cotton mouse <u>Peromyscus</u> gossypinus	Total Individuals Caught	Total Traps Set	Percent Success

Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

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Appendix B-4 (cont.)

次在这些所述的必然所以可以各种的关系,这些时间的关系实践的思想的是这种的。

		Date	. 4gz 4	Date "(1% Argy 43)	T		На	Habitat	-
Species	Oct 8	Nov 11	Apr 8		ETOT		D 3	Th	Gr
deer mouse Peromyscus maniculatus	0	-	0		H	1	0	т	1
cotton mouse Peromyscus gossypinus	13	æ	33		19		17	2	
eastern woodrat <u>Neotoma floridana</u>	. 0	0	н		4		н	0	
Total Individuals Caught	13	4	4		21		18	3	1
Total Traps Set	100	100	100		300	8	270	30	0
Percent Success	13.0	4.0	4.0		7.0	Φ	6.7		1 1

Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

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Appendix B-4 (cont.)

程序对对 15 年间 15 年间,15 年间,

		St ₁ Date	Study Ar te (1977	dy Area 5 (1972-1973	3)	τ		Ha	Habitat	-
Species	0ct 22	Jan 14	Feb 25	Mar 25	Apr 19	rota	Š	Wd	T.	Gr
cotton mouse Peromyscus gossypinus	0	0	o	н	0	н		0	н	0
•										
Total Individuals Caught	0	0	0	г	0	1		0	٦	0
Total Traps Set	100	100	100	100	100	200	10	100	225	1.75
Percent Success	0.0	0.0	0.0	1.0	0.0	0.2	o	0.0	0.4	0.0

hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

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Appendix B-4 (cont.)

		T	<u> </u>		6		0	
رد 	Gr					ļ	7	180
Habita	Th	0		-	ω	0	20	160
На	Wd	0		1	ø	0	æ	60
	•				•		<u> </u>	
τ	Tota	1	18	3	23	m	48	400
^								
ea 6 -1973	Mar 30	0	0	0	S	0	:S	100
dy Area (1972-1	Mar 4	0	11	7	15	ч	28	100
Study Date (1	Jan 27	0	7	н	7	0	10	100
	Nov 12	٦	0	٦	ч	2	ស	100
	Species	least shrew <u>Cryptotis parva</u>	fulvous harvest mouse Reithrodontomys tulvescens	deer mouse <u>Peromyscus maniculatus</u>	cotton mouse Peromyscus gossypinus	cotton rat Sigmodon hispidus	Total Individuals Caught	Total Traps Set

"d: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

Appendix B-4 (cont.)

		Study Date (dy Area (1972-)	ly Area 7 (1972-1973	3)	. τ	He	Habitat	-	
Species	Nov 4	Nov 17	Jan 20	Mar 24	Apr 20	stoT	Wd	Ŧħ	gr	
fulvous harvest mouse Reithrodontomys fulvescens	ns 2	0	0	1	0	ĸ	٦	72	!	
deer mouse Peromyscus maniculatus	٦	0	0	0	0	1		0	:	,
cotton mouse Peromyscus gossypinus	0	4	τ	3	0	ω	ω	,	!	
cotton rat Sigmoden hispidus	н	0	0	0	0	н	0	н	1 1	·
										,
Total Individuals Caught	4	4	1	4	0	13	10	3	! !	
Total Traps Set	100	100	100	100	100	500	375	125	0	
Percent Success	0	4.0	1.0	4.0	0.0	2.6	2.7	2.4	l l 1	

Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

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Appendix B-4 (cont.)

O Terrentementalement of the first of the first of the first of the superior of the first of the			-						
		Stu Dave	Study Area 8 Dave (1972-197	ea 8 2-1973)	τ	Ħ	Habitat	-	
Species	0ct 21	Dec 9	Apr 1	Apr 29	rota ———	WG	Th	gr	
short-tailed shrew Blarina brevicauda	T		0	0	 Ci.	-	0	0	
fulvous harvest mouse Reithrodontomys fulvescens	0	1	0	0		0	-	0	
cotton mouse Peromyscus gossypinus	0	0	0	ч	٦	٦	0	0	
									•
Total Individuals Caught	1	٦	0	러	m	1	П	0	
Total Traps Set	100	100	80	100	380	210	110	09	
Percent Success	1.0	1.0	0.0	1.0	8.0	1.0	6.0	0.0	1

Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields. THE THE PROPERTY OF THE PROPER

Appendix B-4 (cont.)

		St Date	Study A	Area 9	3)	τ		Ha	Habitat	-
Species	Sept 16	0ct 28	Feb 10	Mar 10	Apr 28	Tota		۳d	T.	Gr
cotton mouse Peromyscus gossypinus	0	0	0	٠	2	7	1	7	1	!
Total Individuals Caught	٥	0	0	ស	2	7		7	!	1
Total Traps Set	65	100	100	100	100	465	4	465	0	0
Percent Success	0.0	0.0	0.0	5.0	2.0	1.5		1.5	1	1
	,					¥		-	-	_

Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields. THE STATE OF THE S

Appendix B-4 (cont.)

	·		Υ			 			
	BE	0	0	H			1	95	1.1
Habitat	Th	m	0	0			3	75	4.0
Ha	Wd	C	8	0			ю	180	1.7
					•	•		·····	
τ	EjoT	8	ĸ	7			7	350	2.0
.3.)									
Area 10 972-1973	May 13	0	0	0			0	50	0
~ 1	Mar 11	ю	1	1			5	100	5,0
Study Date (Feb 11	0	0	0			0	100	0.0
	Dec 10	0 S	2	0			2	100	2.0
-	5,560,168	fulvous harvest mouse Reithrodontomys fulvescen	cotton mouse Percmyscus gossypinus	pgymy mouse Baiomys taylori			Total Individuals Caught	Total Traps Set	Percent Success

¹ Wd: hardwood forests and woodlands; Th: thickets, scrub, and forest edge; Gr: grasslands, croplands, pastures, and weedy fields.

Appendix B-5. Species and numbers of birds recorded on censuses at Study Areas 1-10. An "x" indicates the species was seen on or near the transect at some time other than the census period.

Study Area 1			Ce	ensus I	Dates		
Species	9/23	10/1	12/3	1/15	3/24	4/22	5/12
green heron		ж					
little blue heron	1						
cattle egret		1				2	
snowy egret	. 1						
yellow-cr night heron						1	
wood duck	2					2	
turkey vulture			1				1
red-tailed hawk		1	1		1	2	
Swainson's hawk						x	1
rough-legged hawk			1				
marsh hawk					1		
American kestrel		1				x	
bobwhite	20	1				ж	3
killdeer		3	1	3	2		
upland sandpiper						5	
spotted sandpiper							1
solitary sandpiper						1	
Franklin's gull						14	14
mourning dove	2	3	6	4	4	14	6
great horned owl		х					
barred owl					2	2	

Study Area 1 (Cont.)			Ce	ensus D	ates		
Species	9/23	10/1	12/3	1/15	3/24	4/22	5/12
chuck-will's widow						х	
chimney swift	7	32				9	7
ruby-throated hummingbird						1	
black-chinned hummingbird	<u> </u>						2
belted kingfisher		х				1	
common flicker		18	8				
red-bellied woodpecker	2	7	3	2	1	1	
red-headed woodpecker		1					
yellow-bellied sapsucker		1	1				
hairy woodpecker	2					1	
downy woodpecker	1	1	3	1			4
ladder-backed woodpecker				1			ļ
eastern kingbird						1	1
scissor-tailed flycatcher						1	1
great crested flycatcher						3	2
eastern phoebe	1				1	}]
least flycatcher	2						1
eastern wood pewee						1	e desires sayab
tree swallow		15					
bank swallow							1
rough-winged swallow						2	

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Appendix B-5 . (cont.)

Study Area 1 (Cont.)		····	Ce	nsus D	ates		
Species	9/23	10/1	12/3	1/15	3/24	4/22	5/12
barn swallow]	38					9
cliff swallow		1					14
blue jay	28	37	10	8	7	6	1
common crow	. 11	ذ2	21	9	16	31	4
Carolina chickadee	14	27	15	7	9	15	14
tufted titmouse	2	5	3	5	10	18	12
brown creeper			1	1			
house wren		2			1		
Bewick's wren		5	5	2	1	2	
Carolina wren	8	4	3	6	9	5	3
mockingbird		7	5	3	×	1	
gray catbird		ж					
brown thrasher		7		4	2	4	
robin				218	12		
hermit thrush			1	3	3		
Swainson's thrush						_	1
eastern bluebird			6	14			
blue-gray gnatcatcher						4	2
golden-crowned kinglet			4				
ruby-crowned kinglet		2	13	2	5	11	
cedar waxwing			55	18		84	35

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Appendix B-5 . (cont.)

Study Area 1 (Cont.)			Ce	ensus I	Dates		
Species	9/23	10/1	12/3	1/15	3/24	4/22	5/12
redwinged blackbird		36				3	
orchard oriole						1	
great-tailed grackle	10	18			1	15	8
common grackle	ļ			1	40	24	
brown-headed cowbird	12	51		14	35	65	13
cardinal	19	60	73	58	43	47	26
indigo ' mting						8	9
painted bunting						3	19
dickcissel						21	
purple finch			16				
pine siskin			4				
American goldfinch			6	2			
rufous-sided towhee			8	7	5		
grasshopper sparrow						х	
vesper sparrow					x		
slate-colored junco			27	16	10		
chipping sparrow							4
clay-colored sparrow						x	
field sparrow		31	2	17			
Harris' sparrow			44	x		10	
white-throated sparrow			48	12	29	31	

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Study Area 1 (Cont.)			Ce	nsus D	ates		
Species	9/23	10/1	12/3	1/15	3/24	4/22	5/12
loggerhead shrike	4	3		2_			
starling	15	18	5	84	10	2	
white-eyed vireo						1	2
solitary vireo	. 3				x		
red-eyed vireo						4	1
black & white warbler							1
prothonotary warbler	2						
Tennessee warbler						2	2
orange-crowned warbler	4	1				1	
Nashville warbler	25					35	
northern parula warbler					1		
yellow warbler	8						
myrtle warbler			1	3	4	2	
black-throated green warble	r					2	
chestnut-sidcd warbler							ı
common yellowthroat	3	1				2	
yellow-breasted chat						6	
Wilson's warbler	10						
American redstart	3						
house sparrow	3	30			15	12	
eastern meadowlark		4			×	1	

LIBERTHER PROPERTIES OF THE PROPERTY OF THE PR

Appendix B-5 . (cont.)

Study Area 1 (Cont.)				Census	Dates		·
Species	9/23	10/1		1/15			5/12
fox sparrow			15	18			
Lincoln's sparrow			8	9	3	10	
song sparrow	ļ	 	26	32	1	<u> </u>	
	<u> </u>						
							-
						<u> </u>	-
Total Individuals	225	465	479	569	300	557	226
Total Census Species	30	35	36	33	31	56	25

Total Species all Censuses: 101 (plus 7 non-census species=108) Total Individuals all Censuses: 2,821 (avg. 403 per census)

Study Area 2			Cens	us Dat	es	
Species	2/20	2/24	3/25	4/7	4/27	
pied-billed grebe	×		x	×	х	
double-crested cormorant		х	×	x	x	
great blue heron	2	4	4			
little blue heron				6		
cattle egret					9	
yellow-cr night heron					1	
Canada goose		x				
mallard	x		×			
gadwall	×	x	4			
pintail	x	x				
green-winged teal	x	x				
blue-winged teal		x	21	×	х	
northern shoveler		×		x		
wood duck		6	4	5	3	
riny-necked duck	х	_ x				
canvasback		×				
lesser scaup		×				
ruddy duck		×				
turkey vulture			1			
red-tailed hawk	1	1	11			
Swainson's hawk	•				1	

Appendix B-5 (cont.)

Study Area 2 (Cont.)		_	Cei	nsus D	ates		·
Species	2/20	2/24	3/25	4/7	4/27		
marsh hawk	х						
osprey	ļ				×		
American kestrel	х		х				
bobwhite					x		
American coot	х	×	×	х	×		
killdeer	х	1			×		
ring-billed gull			1				
Franklin's gull			×	×	1		
mourning dove	×				4		
barred owl			1				
chimney swift			15	·	17		
ruby-throated hummingbird					1		
common flicker	2	4	1	1			
red-bellied woodpecker	11	14	12	6	8		! !
red-headed woodpecker					×		
pileated woodpecker	x					····	
hairy woodpecker		1			1		
yellow-bellied sapsucker	1	1					
downy woodpecker	13	9	3	2	4		
western kingbird					x		
scissor-tailed flycatcher				x	x		

Study Area 2 (Cont.)			Ce	ensus I	Dates	
Species	2/20	2/24	3/25	4/7	4/27	
great crested flycatcher					6	
eastern phoebe	1			x		
least flycatcher					1	
horned lark	. 2					
rough-winged swallow			1		2	
barn swallow			х		x	
cliff swallow					х	
purple martin			х			
blue jay	27	11	4	2	14	
common crow	30	14	17	8	19	
Carolina chickadee	13	15	17	7	10	
tufted titmouse	24	8	16	11	13	
brown creeper	1	1	1			
Bewick's wren	×	х				
Carolina wren	25	20	16	9	11	
mockingbird	x	1	×		×	
brown thrasher	1	3	ì		3	
robin	36	74	12	3		
hermit thrush	1	х				
Swainscn's thrush					1	1
eastern bluebird	3		×			

Appendix B-5 . (cont.)

Study Area 2 (Cont.)			Cens	us Da	tes	
Species	2/20	2/24	3/25	4/7	4/27	
blue-gray gnatcatcher			6	2		
ruby-crowned kinglet	1	3	2	4	8	
cedar waxwing			2	32		
loggerhead shrike			ж			
starling	21	6 8	2		12	
white-eyed vir_o				1	2	
solitary vireo					1	
warbling vireo					_2	
black & white warbler					1	
Tennessee warbler					5	
Nashville warbler					19	
yellow warbler					2	
myrtle warbler	24	19	10	15	3	
northern waterthrush					1	
common yellowthroat				x	2	
house sparrow	×	×	×	×	x	
eastern meadowlark	х	×	х	×	x	
western meadowlark	×	×	х			
redwinged blackbird	115	210	7	18	11	
Baltimore oriole					1	
rusty blackbird	4	9				

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Appendix B-5 (cont.)

Study Area 2 (Cont.)			Cen	sus Da	tes	
Species	2/20	2/24	3/25	4/7	4/27	
great-tailed grackle		33	x		2	
common grackle		4	2	155	13	
brown-headed cowbird		14	2	9	10	
cardinal	. 33	89	30	52	37	
indigo bunting					1	
dickc.ssel					х	
purple finch	8	19	1			
American goldfinch	1	7	1			
rufous-sided towhee	4	8	1	2		
lark sparrow					×	
slate-colored junco	10	27	3			
chipping sparrow			x			
field sparrow			x			
Harris' sparrow	×	x			х	
white-crowned sparrow					x	
white-throated sparrow	48	153	41	38	14	
fox sparrow	1	1				
Lincoln's sparrow		2	2	11	6	
swamp sparrow			1			
song sparrow	2	7	1	х		
Total Individuals	466	861	267	399	283	
Total Census Species	31	35	38	23	42	

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Total Species All Censuses: 70 (plus 34 non-census species= 104) Total Individuals All Censuses: 2,276 (avg. 455 per census)

Appendix B-5 . (cont.)

Study Area 3			Census	Dates		
Species	9/30	12/2	1/28	3/3	5/12	
white pelican	33					
double-crested cormorant	×					
great blue heron	×					 <u> </u>
little blue heron	<u> </u>				10	
cattle egret	×				3	
snowy egret					×	
wood stork	140					
mallard				2	×	
blue-winged teal	<u> </u>				х	
turkey vulture	7	7	23	4	5	
sharp-shinned hawk	x	1				
Cooper's hawk	×			×		
red-tailed hawk	2		1			
red-shouldered hawk	1	1		4	2	
broad-winged hawk	21					
Swainson's hawk	2				1	
marsh hawk	x		x	х		
peregrine falcon	×					
American kestrel	3		х	x		
bobwhite	×		14		2	
semipalmated plover					×	 i

Study Area 3 (Cont.)			Cer	sus Da	tes	····	·
Species	9/30	12/2	1/28	3/3	5/12		
piping plover					х		
killdeer	2	1		x	2		
golden plover	x						
American woodcock	<u>.</u>	1	1				
whimbrel					x		L
upland sandpiper	х				x		
spotted sandpiper					x		
solitary sandpiper	1						
greater yellowlegs					x		
lesser yello legs					x		
willet					×		
pectoral sandpiper					x		
white-rumped sandpiper					x		
Baird's sandpiper					×		
least sandpiper					х		
semipalmated sandpiper					х		
dunlin					х		
long-billed dowitcher					х		
stilt sandpiper					х		
buff-breasted sandpiper	x				х		
Hudsonian godwit					×		

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Study Area 3 (Cont.)			Cer	isus Da	ites	
Species	9/30	12/2	1/28	3/3	5/12	
Wilson's phalarope					×	
Franklin'g gull	4				×	
black tern					×	
mourning dove	. 5	2	11		1	
yellow-billed cuckoo					4	 <u> </u>
great horned owl	1	1				<u> </u>
barred owl	2	1		x	4	
common nighthawk					2	<u> </u>
chimney swift	15				10	
ruby-throated hummingbird					2	
common flicker	22	17	3	1		
pileated woodpecker	1	2	1		2	
red-bellied woodpecker	6	12	9	7	4	
yellow-bellied sapsucker		3	3	3		<u> </u>
hairy woodpecker	1			1	2	
downy woodpecker	5	7	6	10	5	
eastern kingbird					2	
western kingbird					x	
scissor-tailed flycatcher	24				4	
great crested flycatcher				İ	3	 ,
eastern phoebe	2	2				

Study Area 3 (Cont.)			Cor	sus Da	+05	
Species	9/30	12/2			5/12	
acadian flycatcher					2	
least flycatcher					1	
eastern wood pewee					1	
olive-sided flycatcher	. 1				2	
horned lark					х	
tree swallow	25					
rough-winged swallow	2					
barn swallow	120				15	
cliff swallow	3				2	
blue jay	85	11	2	8	1	
common crow	20	10	15	7	11	
Carolina chickadee	18	39	16	17	18	
tufted titmouse	7	10	5	9	17	
brown creeper		1	1			
house wren	1					
Eewick's wren	<u> </u>		ì			
Carolina wren	4	8	5	6	3	
mockingbird	2		3	2	1	
gray catbird					3	
brown thrasher	2	5	2	2		
robin		155	181	25		

Appendix B-5 (cont.)

Study Area 3 (Cont.) Species		•	Cens	sus Dat	es	
Species	9/30	12/2	1/28	3/3	5/12	
hermit thrush		6	3	3		
Swainson's thrush					6	!
eastern bluebird		2				
b lue-gray gnatcatcher					4	
golden-crowned kinglet		6	3	6		
ruby-crowned kinglet	2	7	4	11		
water pipit			x		x	
Sprague's pipit			х			
cedar waxwing	<u> </u>	152			x	
loggerhead shrike	8	4	2			
starling			7	3	x	
white-eyed vireo		,			5	
red-eyed vireo					9	
Philadelphia vireo					1	
warbling vireo					2	
black & white warbler	1				3	
Tennessee warbler					2	 :
orange-crowned warbler	1	1				<u> </u>
Nashville warbler	3					
northern parula warbler	1					
magnolia warbler				-	1	

(thirds Aven 2 (Cont.)					_		
Study Area 3 (Cont.) Species	-	1	Censu	s Date	es		1
	9/30	12/2	1/28	3/3	5/12		
warbler varbler	ļ	15	13	نـــــــــــــــــــــــــــــــــــــ		ļ	
bay-breasted warbler	<u> </u>				2		ļ
ovenbird		<u> </u>		. 	1		
Kentucky warbler	<u></u>				4		
common yellowthroat	1				1		
yellow-breasted hat					1		
American redstart					1		
house sparrow	×	×	х	×	×		
bobolink					х		
eastern meadowlark	3		x	2	4		
yellow-headed blackbird					х		
redwinged blackbird	15	40	х	7	2		
orchard oriole					3		
Baltimore oriole					1		
rusty blackbird				11			
crumnon grackle	28	45		2	10		
brown-headed cowbird	75			11	5		
summer tanager					4		
cardinal	25	77	63	76	68		
indigo bunting	5				25		
painted bunti ;					8		

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Study Area 3 (Cont.)			Cens	sus Dat	es	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Species	9/30	12/2			5/12		
dickcissel					75		
purple finch	ļ	1					
American goldfinch		<u> </u>			1_1_		ļ
rufous-sided towhee	<u>. </u>	2		2			<u> </u>
savannah sparrow			×	х	×		
grasshopper sparrow	ļ				×		ļ
vesper sparrow				×			
lark sparrow				x			
slate-colored junco		13	_11_	1			
Harris' sparrow			х	2			
white-throated sparrow		32	19	28			
fox sparrow		21	20	5			
Lincoln's sparrow	4			1			
song sparrow		6	4				
					•		
Total Individuals	759	726	442	282	396		
Total Census Species	49	39	31	33	60		

PORTO CONTROL
Total Species All Censuses: 101 (plus 39 non-census species- 140). Total Individuals All Censuses: 2,605 (avg. 521 per census).

Study Area 4			Cei	nsus Da	tes		
Species	10/8	11/11	2/4	4/8	5/13		
great blue heron					1_		
green heron	<u> </u>				×		
little blue heron				2	28		
cattle egret	. 2				30		
great egret			-		x		
snowy egret					х		
American bittern					1		
Canada goose	x						
mallard		8	1				
blue-winged teal				×	x	_	
wood duck	3	4			2		
hooded merganser			1				
turkey vulture	2	7	7	9	2		
black vulture			хх	6			
sharp-shinned hawk		1	2				
red-tailed hawk		×	2	1			
red-shouldered hawk	1			1	1		
Swainson's hawk				Ţ			
bald eagle		2					
American kestrel	x	1					
killdeer	2	7	х	x	2		

Appendix B-5 (cont.)

Study Area 4 (Cont.)			Cons	us Dat		
Species	10/8	11/11			5/13	
solitary sandpiper				x	×	
white-rumped sandpiper					<u>x</u>	
least sandpiper					×	
semipalmated sandpiper					×	
ring-billed gull		1				
Franklin's gull		20				
mourning dove	1	7	5		×	
yellow-billed cuckoo					2	
roadrunner		x	х			
screech owl		1				
great horned owl		2				
barred owl	1	1	1	1	4	
chuck-will's-widow					×	
common nighthawk					×	
chimney swift	1					
ruby-throated hummingbird					1	
belted kingfisher				1		
common flicker	8	28	8			
pileated woodpecker	2	4	2	1	2	
red-bellied woodpecker	1	13	9	8	6	
red-headed woodpecker	×		у	1	2	

Appendix B-5 (cont.)

Study Area 4 (Cont.)			Ce	nsus D	ates	
Species	10/8	11/11	2/4	4/8	5/13	
yellow bellied sapsucker	1	9	4			
hairy woodpecker		4				
downy woodpecker	6	12	4	3	5	
eastern kingbird					2	
scissor-tailed flycatcher	х				1	
great crested flycatcher					5	
eastern pheobe	3	1				
acadian flycatcher					2	
least flycatcher					1	
eastern wood pewee					4	
barn swallow	1			1		
blue jay	3	4		6	1	
common crow	6	36	24	7	15	
Carolina chicadee	27	43	43	26	28	
tufted titmouse	7	17	19	16	34	
white-breasted nuthatch	5	6	3	2	6	
brown creeper		7	2			
winter wren		5				
Bewick's wren		1				
Carolina wren	3	8	3	5	1	
mockingbird		4	1	1	х	

Study Area 4 (Cont.)			Ce	nsus Da	ates	
Species	10/8	11/11	2/4	4/8	5/13	
brown thrasher	3	4	1	4	1	
robin			68			
hermit thrush		8	2	1		
Swainson's thrush						
eastern bluebird	. 1	18	3	3	×	
blue-gray gnatcatcher				8	3	
golden-crowned kinglet		14	3			
ruby-crowned kinglet	3	22	5	4		
water pipit ,			x			
cedar waxwing		3		28		
loggerhead shrike	2	1	2	1	х	
starling		575	90			
white-eyed vireo				3	2	
yellow-throated vireo				1	2	
solitary vireo			1			
red-eyed vireo					5	
warbling vireo					1	
Tennessee warbler					3	
Nashville warbler				1		
yellow warbler					2	
magnolia warbler					1	
myrtle warbler		4		6		

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Study Area 4 (Cont.)			C€	ensus l	Dates	· · · · · · · · · · · · · · · · · · ·	
Species	10/8	11/11	2/4	4/8	5/13		
blackburnian warbler					3		
yellow-throated warbler				1	3		
ovenbird					1		
house sparrow			ж				<u> </u>
eastern meadowlark			×	3	x		
redwinged blackbird		72	1750				
common grackle	22	108	15		3		
brown-headed cowbird	1	22	6	2	3		
summer tanager				1	7		
cardinal	51	103	72	51	55		
indigo bunting					3		
painted bunting					13		
purple finch		29	85				
pine siskin			8				
American goldfinch		36	195				
rufous-sided towhee		1	3				
savannah sparrow				6			
vesper sparrow		×					
lark sparrow					2		
slate-colored junco		10	28				
field sparrow		3	x				

Appendix B-5 (cont.)

Study Area 4 (Cont.)			Cer	sus Da	ates	·····	
Species	10/8	11/11	2/4	4/8	5/13		
Harris' sparrow		2	12				
white-crowned sparrow			1				
white-throated sparrow		162	254	78			
fox sparrow	<u> </u>	10	10			ļ	
Lincoln's sparrow		1		5			
song sparrow		1	1				
	ļ						
	ļ					<u> </u>	
Total Individuals	169	1473	2757	306	303		
Total Census Species	28	53	43	39	47		

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Total Species All Censuses: 97 (plus 15 non-census species= 112). Total Individuals All Censuses: 5.009 (avg. 1,002 per census).

	1					 	
Study Area 5 (Cont.)		,	Ce	nsus Da	tes	,	-,
Species	10/22	1/14	2/3	2/25	3/25	1/21	
red-bellied woodpecker		11_	1	1	1	3	<u> </u>
yellow-bellied sapsucker			1	ļ			
hairy woodpecker			1				
downy woodpecker	<u> </u>	4	7	3	2		
eastern kingbird						2	
scissor-tailed flycatcher	4					4	
great crested flycatcher						1	
eastern phoebe	1						
eastern wood pewee						2	
horned lark			3			3	
barn swallow						3	
blue jay	6	5	5	7	1		
common crow	24	15	16	10	3	10	
Carolina chickadee	9	7	9	11	8	9	
tufted titmouse	4	4	2	3	7	15	
brown creeper		1					
house wren	1						
Bewick's wren		2	2	1			
Carolina wren	8	5	9	6	3	8	1
mockingbird	7	8	4	5	5	16	
brown thrasher	5	1	1	1		ì	

Study Area 5 (Cont.)		····	Ce	nsus Da	ites		
Species	10/22	1/14	2/3	2/25	3/25	4/21	
robin		41	23	19			
hermit thrush		2	6	1_1_			
Swainson's thrush						1	
eastern bluebird		5	2		3		
golden-crowned kinglet		1					
ruby-crowned kinglet	6	2	1			2	
Sprague's pipit			1				
cedar waxwing					25	14	
loggerhead shrike	2	2	1	2	1	1	
starling	×	140	×	×	×	×	
black & white warbler						1	
orange-crowned warbler						1	
Nashville warbler						9	
myrtle warbler		8	8	8	4	4	
house sparrow	х	х	х	x	х	x	
eastern meadowlark	32	3	80	34	33	31	
redwinged blackbird		1000	20	, 1	1	10	
orchard oriole						4	
common grackle		6	ì		4	4	
brown-headed cowbird		20	1	44	11	5	
cardinal	48	41	37	42	24	34	

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Study Area 5 (Cont.)		· · · · · · · · · · · · · · · · · · ·	Ce	nsus Da	ites		
Species	10/22	1/14	2/3	2/25	3/25	4/21	
indigo bunting						1	
dickcissel						2	
purple finch		6	16	17			
pine siskin		×					
American goldfinch		1	11	1		·	
rufous-sided towhee		1	4	2			
savannah sparrow	13	19	11	22	2	21	
grasshopper sparrow			11		2		
LeConte's sparrow			3				
vester sparrow		71	15	38			
lark sparrow		1				21	
slate-colored junco		18	10	80	4		
clay-colored sparrow						1	
field sparrow		12	12	9	5	1	
Harris' sparrow		36		8			
white-crowned sparrow						1	
white-throated sparrow	5	49	30	45	22	10_	
fox sparrow		1	11	1			
Lincoln's sparrow	1			2		1	
song sparrow		11	5	6			
Smith's longspur		140	x				

Appendix B-5 . (cont.)

Study Area 5 (Cont.)			Cei	nsus Da	ites	Y	
Species	10/22	1/14	2/3	2/25	3/25	4/21	
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			· · · · · · · · · · · · · · · · · · ·				<u> </u>
						·	
						 	
Total Individuals		1769	383	453	214	340_	
Total Census Species	24	43	44	34	28	48	

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Total Species All Censuses: 81 (plus ? non-census species= 84).
Total Individuals All Censuses: 3,358 (a.g. 565 per census).

Appendix B-5 (cont.)

Study Area 6			Cen	sus Da	tes		7
Species	11/12	1/27	2/18	3/4	3/31	5/27	
great blue heron			1			2	!
green heron				·····]	
little blue heron						9	
cattle egret						81	
great egret					1	1	
wood duck	х						
hooded merganser			2				
turkey vulture	14		1	4	7	1	
sharp-shinned hawk	x						
red-tailed hawk	4	4	3	5	2	1	
red-shouldered hawk	1			1		1	
marsh hawk	1	2	1	1	1	~	į
American kestrel	1	1	1	1			
bobwhite	х	18				-	
killdeer	3	2	2	2		1	ļ
common snipe	1						
greater yellowlegs	2						
mourning dove	7		1	1		2	
yellow-billed cuckoo						5_	
barn owl						! !	!
barred owl		2					

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Study Area 6 (Cont.)			Cer	sus D	ata		
S _i ecies	11/12	1/27	2/18	3/4	3/31	5/27	
ruby-throated hummingbird						2	
common flicker	17	7	8	2			
red-bellied woodpecker	9	3	4	1	1	1	
red-headed woodpecker						1	
yellow-bellied sapsucker	2	1	1	1			
downy woodpecker	3	2	2	3	1	7	<u> </u>
great crested flycatcher						11	
scissor-tailed flycatcher						2	
eastern phoebe	3			1			
willow flycatcher				*****		3	
eastern wood pewee						×	
barn swallow						2	
purple martin						3	
blue jay	20	5	7	5	4	3	
common crow	72	9	12	10	7	10	
Carolina chickadee	14	15	11	15	6	16	
tufted titmouse	5	7	4	3	4	10	
brown creeper	2						
house wren		1					
winter wren	2						
Bewick's wren	1	1.		1			

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Study Area 6 (Cont.)		·	Cens	us Dat	es	· · · · · · · · · · · · · · · · · · ·	
Species '	11/12	1/27	2/18	3/4	3/31	5/27	
Carolina wren	5	1	1	4	2	1	
mockingbird	6	6	3	5	5	x	
brown thrasher		9	4	4	1		
robin	65	6	31	3			
hermit thrush	3	1	2		1		
eastern bluebird	17	6					
blue-gray gnatcatcher					4		
golden-crowned kinglet	6	1					
ruby-crowned kinglet	9	4	1	4	3		
cedar waxwing				16	7		
loggerhead shrike	7	2	1	3	1		
starling			6	1			
white-eyed vireo					1	3	
orange-crowned warbler	1						
myrtle warbler	2		1	13	24		
common yellowthroat						4	
yellow-breasted chat						9	
eastern meadowlark	125	11	31	24	7	2	
western meadowlark	1	- 					
redwinged blackbird	1600	1425	2315	92	ж	1	
rusty blackbird			20				

Study Area 6 (Cont.)		 	Cens	us Dai	es		
Species	11/12	1/27	2/18	3/4	3/31	5/27	
common grackle	350	285	335	33	31	33	
brown-headed cowbird	30	110	535	11	8	20	
cardinal	31	53	18	36	23	38	
blue grosbeak						1	
indigo bunting						ll	
painted bunting		· · · · · · · · · · · · · · · · · · ·				17	
dickcissel						11	
purple finch	6		1				
American goldfinch	36	1					
rufous-sided towhee	2			1			
savannah sparrow	15	11	1	3	4		
LeConte's sparrow		3	1				! i
vesper sparrow	. 6	5					
slate-colored junco	2						
field sparrow	1		2	2			-
white-crowned sparrow	12		3	2	7		<u> </u>
white-throated sparrow	20	5	2	8	13		
fox sparrow	10	20	8	3			į
Lincoln's sparrow	5			4	4		
swamp sparrow	24	2	5	6	3		i
song sparrow	35	16	13	9	<u></u>	<u></u>	

Appendix B-5 (cont.)

Study Area 6 (Cont.) .			Cei	nsus D	ates		
Species	11/12	1/27	2/18	3/4	3/31	5/27	
						 	
	 					 	
							<u> </u>
	 					 	<u> </u>
						ļ	
						<u> </u>	
				<u></u>			
Total Individuals	2617		3401	344	183	307	
Total Census Species	51	38	40	40	30	37	

Total Species All Censuses: 81 (plus 3 non-census species= 84).
Total Individuals All Censuses: 8,915 (avg. 1,486 per census).

Appendix B-5 . (cont.)

Study Area 7			Cens	us Dat	es	,	·
Species	11/4	11/17	1/20	2/17	3/24	4/20	
great blue heron	1	×		2		1	
green heron						1	
little blue heron						1	
cattle egret						2	!
snowy egret						1	
yellow-cr night heron						2	
white-fronted goose	5						
mallard			5	10			
pintail				2			
blue-winged teal						3	
wood duck	2	. x	6	4	2	2	I
turkey vulture	6	15		4	10	6	!
black vulture		29	i 1	4			,
white-tailed kite					2	2	1
Mississippi kite			.		i 	1	,
sharp-shinned hawk		1				x	
Cooper's hawk						×	
red-tailed hawk	1	3				-	į
red-shouldered hawk	1	<u> </u>	1	2	, 1	2	
broad-winged hawk	i i i			7		x	!
marsh hawk	2	2 !		1	<u> </u>	2	i

Study Area 7 (Cont.)			Cens	sus Dat	es		
Species	11/4	11/17	1/20	2/17	3/24	4/20	
American kestrel	x	2				x	
bobwhite						×	
killdeer	7	27	1	2	2	3	
common snipe	5					x	
upland sandpiper						х	
solitary sandpiper						×	
greater yellowlegs						1	
lesser yellowlegs						3	
mourning dove	6	12		3		3	
barn owl					x		
great horned owl						x	
barred owl	2	1	1	2		2	
common nighthawk						3	
chimney swift						8	
ruby-throated hummingbird						1	į
belted kingfisher	1					1	
common flicker	7	22	3	11	1		1
pileated woodpecker		1	1	1	1	1	1
red-bellied woodpecker	7	13	7	11	5	7	
red-headed woodpecker	×					x	
yellow-bellied sapsucker	<u>1</u>	6	4	6			

Appendix B-5 (cont.)

Study Area 7 (Cont.)	. Census Dates								
Species	11/4	11/17				4/20			
hairy woodpecker		2							
downy woodpecker	2	3	7	5	2	4			
eastern kingbird						x	<u> </u>		
scissor-tailed flycatcher						1			
great crested flycatcher						1			
eastern phoebe	2	3	1	2			<u> </u>		
tree swallow						1			
rough-winged swallow						5			
barn swallow						3			
purple martin					5	2			
blue jay	11	14	9	3	1	1			
common crow	22	57	19	25	12	29			
Carolina chickadee	15	39	31	23	13	13			
tufted titmouse	6	25	8	6	16	17			
white-breasted nuthatch	1								
brown creeper		8	1	2					
house wren		1							
winter wren	2	4	1	1					
Bewick's wren	3	3		1					
Carolina wren	12	29	23	33	12	17			
mockingbird	1	1	3	4	3	2			

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Study Area 7 (Cont.)			Cer	sus Da	tes		
Species	11/4	11/17	1/20	2/17	3/24	4/20	
gray catbird	2						
brown thrasher	9	5	12	15		2	
robin	42	4	122	36			
hermit thrush	1	4	7	4	1		
eastern bluebird	1	8				х	
blue-gray gnatcatcher					6	2	
golden-crowned kinglet	6	10		2			
ruby-crowned kinglet	9	33	5	3	5	2.	
water pipit	7	1	1				
cedar waxwing			32				
loggerhead shrike	3	1	1	1		х	
starling				2		2	
white-eyed vireo					5	6	
solitary vireo			1				
red-eyed vireo						2	***
prothonotary warbler						2	
Swainson's warbler						2	
Tennessee warbler						1	
orange-crowned warbler	4	1	3	1]
Nashville warbler						1	
northern parula warbler			1		18	21	

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Appendix B-5 (cont.)

Study Area 7 (Cont.)			Cens	us Dat	es		
Species	11/4	11/17	1/20	2/17	3/24	4/20	
myrtle warbler	9	24	4	4			
pine warbler		1	2				
Kentucky warbler						3	l
common yellowthroat						1	
house sparrow	x	х	x	х	ж	х	
eastern meadowlark	23	35	3	6	6	7	
western meadowlark		1					
redwinged blackbird	2	240	13	35		5	
Brewer's blackbird		20					!
common grackle	43	25	73	3	1	2	
brown-headed cowbird	400	х			2	32	
cardinal	48	58	9 7	71	44	92	:
blue grosbeak						1	,
indigo bunting						2	
painted bunting						2	
dickcissel						4	1
purple finch		2					
pine siskin			10				
American goldfinch	12	18	4	3			! !
rufous-sided towhee		1					:
savannah sparrow	1	20		11		;	

Appendix B-5 (cont.)

Study Area 7(Cont.)			Ce	ensus I	ates		
Species	11/4	11/17	1/20	2/17	3/24	4/20	
grasshopper sparrow						х	
vesper sparrow	2	20		1			<u> </u>
lark sparrow						2	<u> </u>
slate-colored junco		6	7	4	2		<u> </u>
white-crowned sparrow	ļ	1		3		x	
white-throated sparrow	78	55	173	70	40	6	<u></u>
fox sparrow			16	11			<u> </u>
Lincoln's sparrow		4			3	х	
swamp sparrow			1		1		
song sparrow		6	2	6	1		
	<u> </u>						
		_					
Total Individuals	833	927	721	462	228	361	,
Total Census Species	46	53	41	47	31	63	

Total Species All Censuses: 105 (plus 10 non-census species= 115'. Total Individuals All Censuses: 3,532 (avg. 589 per census).

						
		Cen	sus Da	tes		
10/21	11/7	12/9			4/1	4/23
1		2		1	2	
					×	
х				8	27	6
	1	1	3	26	37	5
						1
ж	1			13	21	31
32	23		1			117
				65	58	7
				1	2	×
					х	• • • • • • • • • • • • • • • • • • • •
					x	į
				3	1	10
1				1	х	. 129
x						
1	7	5	14	5	3	• • •
		15	13	17	3	
		4				
3	5	7	23	5	2	.
1				50	24	14
7	2	8	32	3		·
1	1	3				
	1 x 32 1 x 1 7	x 1 32 23 1 x 1 32 7 2	10/21 11/7 12/9 1	10/21 11/7 12/9 1/3 1	1 2 1 x 8 1 1 3 26 x 1 1 3 26 x 1 3 26 x 1 65 1 1 65 1 1 x 3 3 1 x 1 1 1 x 1 1 5 1 7 5 14 5 1 7 2 8 32 3	10/21 11/7 12/9 1/3 3/23 4/1 1 2 1 2 x 3 8 27 1 1 3 26 37 x 1 1 3 26 37 x 1 3 21 32 37 x 1 3 1 3 21 x 1 2 3 1 2 x 3 1 2 3 3 1 2 x 3 4 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 <td< td=""></td<>

Appendix B-5 (cont.)

Study Area 8 (Cont.)			Ce	nsus D	ates		
Species	10/21	11/7	12/9	1/3	3/23	4/1	4/29
wood duck	5	9	12	4	19	7	2
ring-necked duck			×				
turkey vulture	4	5	11	12		1	1
black vulture	2	3	5	9	61	39	45
Mississippi kite							х
sharp-shinned hawk	1						
Cooper's hawk		1				1	
red-tailed hawk	1	i	1	2_			
red-shouldered hawk		2	1	4	2	1	х
broad-winged hawk						2	
marsh hawk	1						
American kestrel	x	2	2				
some rail					1	1	
purple gallinule							2
common gallinule	1						3
American coot	2		7		x	15	×
killdeer	6	14	11	14			x
common snipe	12	1	6				
solitary sandpiper				1	1	2	4
ring-billed gull						×	
mourning dove	4	22	4	25	4	1	2

Study Area 8 (Cont.)	Census Dates									
Species	10/21	11/7	12/9	1/3	3/23	4/1	4/29			
yellow-billed cuckoo							1 1			
roadrunner							×			
barred owl	2	1_			3	1	1 1			
chimney swift	1				65	12	30			
ruby-throated hummingbird						2	2			
belted kingfisher	1	1			_1		!			
common flicker	4	11	11	18	1	1	-			
pileated woodpecker	2	4	2	3	1		2			
red-bellied woodpecker	3	9	1	8	8	5	5			
red-headed woodpecker	x	1					3			
yellow-bellied sapsucker	1	1	1	5		1				
downy woodpecker	1	1	2	2	7	5	1 3			
scissor-tailed flycatcher	14					1	l x			
eastern kingbird						1	6			
great crested flycatcher							7			
eastern phoebe	4	7	4	5						
acadian flycatcher			_				10			
vermillion flycatcher	1						!			
rough-winged swallow					1		2			
barn swallow	1				i		. x			
purple martin					2		! X			

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Appendix B-5 (cont.)

Study Area 8 (Cont.)			Ce	nsus D	ates		
Species	10/21	11/7	12/9	1/3	3/23	4/1	4/29
blue jay	31	13	11	22	12	13	5
common crow	25	35	13	56	20	8	5
Carolina chickadee	6	7	9	17	20	10	14
tufted titmouse	2	4	5	2	23	9	12
white-breasted nuthatch							×
brown creeper		1	1			<u> </u>	
house wren	2			1			
winter wren	х	1	1	1			
Carolina wren	4	2	11	18	21	5	7
long-billed marsh wren	3						
short-billed marsh wren	1		2				
mockingbird	3	2	3	7	2	3	
gray catbird	2						
brown thrasher	4	3	8	12	1	2	1
robin		5	169	340	24	1	
hermit thrush				2		1	
eastern bluebird		4	2				
blue-gray gnatcatcher	1		1		10	20	6
golden-crowned kinglet		5	4	3			
ruby-crowned kinglet	3	2	17	14	2	7	
water pipit			26	2			
cedar waxwing				12		12	

Study Area 8 (Cont.)			Ce	nsus Da	ates		
Species	10/21	11/7	12/9	1/3	3/23	4/1	4/29
loggerhead shrike	2	6		3	11_		×
starling	x	9			7_	6	1
white-eyed vireo					3	14	7
yellow-throated vireo					1	1	2
solitary vireo			1	1			
red-eyed vireo							8
prothonotary warbler	·					2	6
Swainson's warbler							2
Tennessee warbler							6
orange-crowned warbler			4	2	1	2	
northern parula warbler					17	20	14
myrtle warbler			9	17	54	17	
yellow-throated warbler					2	2	1
pine warbler			1				
northern waterthrush							1
Louisiana waterthrush					1		
Kentucky warbler							3
common yellowthroat	3	1		2		2	3
yellow-breasted chat							1
hooded warbler						3	2
Wilson's warbler	1						

Appendix B-5 (cont.)

Study Area 8 (Cont.)			C	ensus	Dates	···	
Species	10/21	11/7	12/9	1/3	3/23	4/1	4/29
eastern meadowlark	1	40		32	3	1	×
redwinged blackbird	1	4	48	290	40	8	5
Baltimore oriole							1
rusty blackbird			5	25	1		
Brewer's blackbird				х	х		
brown-headed cowbird	6	10		15	4	16	6
summer tanager							4
cardinal	24	21	61	42	31	64	34
indigo bunting	3						2
painted bunting							7
evening grosbeak				2			
purple finch			2	23			
American goldfinch			24	13		11	1
rufous-sided towhee			6	2			
savannah sparrow		4	2	7	11		1
vesper sparrow			12	2			
slate-colored junco			5				
chipping sparrow					2		
field sparrow			2			1	
white-crowned sparrow		×					
white-throated sparrow	2	۴	91	43	17	17	ő

Appendix B-5 (cont.)

Study Area 8 (Cont.)	Census Dates								
Species	10/21	11/7	12/9		3/23	4/1	4/29		
fox sparrow				1					
Lincoln's sparrow	2			-					
swamp sparrow	4	2	3	9	9	1			
song sparrow	ļ	2	3	7	2		1		
	 								
				<u> </u>					
				<u> </u>					
<u></u>									
							!		
							:		
			 						
					 		!		
Total Individuals	257	325	688	1245	717	55 <u>8</u>	<u> 428 </u>		
Total Census Species	55	50	57	55	57	60	50		

Total Species All Censuses: 120 (plus 12 non-census species= 132). Total Individuals All Censuses: 4,416 (avg. 631 per census).

Appendix B-5 (cont.)

Study Area 9			Cens	us Dat	es		
Species	9/16	10/28	2/10	2/24	3/10	4/14	4/28
double-crested cormorant)	х		1	71.	
anhinga	1		x			2	17
great blue heron			2	×	×	x	4
little blue heron	х		×		x	2	1
cattle egret	х						10
great egret			×	×	1	×	11
snowy egret	×					х	
yellow-cr night heron					1	1	1
white ibis			×				
mallard			х		ж		
green-winged teal			х				
American wigeon			х				
wood duck			2	4			2
turkey vulture	2	6	~ <u></u>	4	4	4	
black vulture	1		12		×	×	
sharp-shinned hawk			х				!
Cooper's hawk		×					x
red-tailed hawk	1						i
red-shouldered hawk	2		1	2	2	3	1
broad-winged hawk	36						
American kestrel			İ	x	x		<u>:</u>

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Appendix B-5 (cont.)

Study Area 9 (Cont.)			Ce	ensus I	ates		
Species	9/16	10/28	2/10	2/24	3/10	4/14	4/28
killdeer	х			x	1	•	
spotted sandpiper	x		х			х	×
Caspian tern					×		
yellow-billed cuckoo	3						4
barred owl	1		2	5		1	2
chimney swift							6
ruby-throated himmingbird	1					2	2
belted kingfisher	2		х		x	x	
common flicker		5	2	8	6		
pileated woodpecker	4	4	3	5	2	2	3
red-bellied woodpecker	4	6	10	17	5	5	7
red-headed woodpecker			×	2			
yellow-bellied sapsucker		14	13	14	4	, !	i
hairy woodpecker	1					! !	· ;
downy woodpecker	3	5	3	12	1!	5 .	3
eastern kingbird					i	X	x '
scissor-tailed flycatcher		x	!	1	:	!	:
great crested flycatcher	5						5
eastern phoebe		11	1	2	1		
acadian flycatcher	13		}]	 !	9
eastern wood pewee	1	1 1			i		

Appendix B-5 (cont.)

Study Area 9 (Cont.)			Ce	ensus I	ates		
Species	9/16	10/28			3/10	4/14	4/28
tree swallow					15		
rough-winged swallow	×	×			2	x	×
barn swallow					2		
purple martin					7		
blue jay		31	11	17	17	8	8
common crow	10	9	11	9	5	5	7
Carolina chickadee	31	24	27	16	20	18	18
tufted titmouse	14	25	24	24	13	13	20
brown creeper		4	3	1			
winter wren		1	1	1			
Carolina wren	23	8	17	35	13	6	11
mockingbird				×	1		
gray catbird	1					į	3
brown thrasher		16	19	12	4	4	3
robin			10	2	3		
wood thrush		3					1
hermit thrush		ī	4	8	1		
Swainson's thrush	1						3
eastern bluebird			х	x		: :	
blue-gray gnatcatcher	7	5				12	2
golden-crowned kinglet	i 1	13	5	1			

Study Area 9 (Cont.)		·	Cer	sus Da	ites		
Species	9/16	10/28	2/10	2/24	3/10	4/14	4/28
ruby-crowned 1 nglet		36	3	4	2	1	
cedar waxwin						26	!
loggerhead shrike	x			×			
white-eyed vireo	78	2	1		1	27	16
yellow-throated vireo	11_					2	1
solitary vireo .			1	1			
red-eyed vireo						7	9
black & white warbler	1_	1	1				1
prothonotary warbler	3					12	_11_
Swainson's warbler	1						3
worm-eating warbler	1						;
Tennessee warbler							12
orange-crowned warbler		3	5	2			
northern parula warbler	4				12	39	16
myrtle warbler		9	18	17	4	6	1
black-throated green warbl	er	2					1
yellow-throated warbler	<u> </u>						1
chestnut-sided warbler							1 .
ovenbird	1						;
northern waterthrush	4						1
Kentucky warbler				 	<u> </u>	4	• •
common yellowthroat	!			!		×	

Appendix B-5 (cont.)

Study Area 9 (Cont.) Species		~	Cei	isus Da	ates		
Species	9/16	10/28	2/10	2/24	3/10	4/14	4/28
yellow-breasted chat	2					i	б
hooded warbler	6					9	4
Canada warbler	1						
American redstart							12
redwinged blackbird				×	1	1	
Baltimore oriole							1
brown-headed cowbird						2	13
summer tanager	1						2
cardinal	54	78	69	53	49	72	63
indigo bunting						1	24
painted bunting							6
purple finch				5			
American goldfinch			3	16	25		3
rufous-sided towhee			6		1		1
savannah sparrow					1	х	
slate-colored junco			x	x	-		i
white-throated sparrow		11	335	36	78	31	5 I
fox sparrow			3				
							:
Total Individuals	326	334	628	325	305	335	324
Total Census Species	39	28 <u>.</u>	33	30	34	32	: }

Total Species All Censuses: 86 (plus 17 non-census species= 190). Total Individuals All Censuses: 2,637 (avg. 377 per census).

Study Area 10 Species			Cens	sus Dat	es		
Species	12/10	2/11	3/11	4/15	5/13		
double-crested cormorant		\$85	14	3			i
anhinga		1	3		2		
great blue heron		1	6	3	1		
little blue heron			1	1	2		İ
cattle egret				14	2		
great egret	2		5	6			
snowy egret			2		7		
Louisiana heron			1	1	4		
yellow-cr night heron					1		
white ibis			360		48		
Canada goose			×				
wood duck		8	3				
turkey vulture	3	8					
black vulture	9	11	3	1	1		
Mississippi kite			1		1		
red-tailed hawk	1		1				
red-shouldered hawk	!	2	2	2	1		
marsh hawk		1					:
American kestrel		1				1	
ring-cilled gull	į		1		i		;
mourning dove		!	2 ;				

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Study Area 10 (Cont.)			Censu	s Date	s		
Species	12/10	2/11		4/15			
yellow-billed cuckoo					6		
barred owl		2	1	2	1		<u>i</u>
chimney swift				4	1		<u> </u>
ruby-throated hurmingbird			į	2		!	1
belted kingfisher		1			_		
common flicker	4	4					
pileated woodpecker	1	1	3	1			
red-bellied woodpecker		6	8	4	4		İ
red-headed woodpecker		4	3	į			
yellow-bellied sapsucker	1	3	3	İ			į
hairy woodpecker		1					
downy woodpecker	2	3	5 '	5	3		
great crested flycatcher			i	i	4		
eastern phoebe	4	1	1	i			
yellow-bellied flycatcher				i	1		
eastern wood pewee			:	2 !	1		
tree swallow		ļ	7	i			
bank swallow		į		!	1)		
barn swallow		į		2	27		
cliff swallow			!	i	2		······································
purple martin			5 ;	6 :			<u> </u>

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Appendix B-5 (cont.)

Str Area 10 (Cont.)		·	C	ensus [ates	,	
Species	12/10	2/11	3/11	4/15	5/13		!
blue jay	11	15	29	6	5		!
common crow	10	9	6	3	6		i i
Carolina chickadee	15	24	21	13	16		•
tufted titmouse	2	4	4	11	13		
brown creeper	1	1					
house wren	1	4					
Carolina wren	6	11	15	6	7		
mockingbird	8	17	7	7	2		<u> </u>
brown thrasher	3	17	8	3			
robin	65	28	2				
wood thrush				4			
hermit thrush	3	3					
eastern bluebird	34	10	4	!			:
blue-gray gnatcatcher	2	!	<u></u>	3			
ruby-crowned kinglet	24	8	12	2			
loggerhead shrike	2	1	1	-			İ
white-eyed vireo		<u> </u>	3	14	7		
solitary vireo	1				-		
red-eyed vireo				2	5		
black & white warbler	Principle and Draw]	5	1		
prothonotary warbler			1	3	3		

Study Area 10 (Cont.)			Ce	nsus Da	ites		
Species	12/10	2/11	3/11	1	5/13		
Swainson's warbler				1	2	ļ	
worm-eating warbler				ì			
blue-winged warbler				1		<u> </u> 	
Tennessee warbler				13			
orange-crowned warbler	2	4	2				
northern parula warbler			6	8	8		
magnolia warbler					1		
myrtle warbler	13	9	4				
cerulean warbler				2			
blackburnian warbler				<u>1</u>			
yellow-throated warbler			1				
chestnut-sided warbler				1			
pine warbler	4.	2	1	1	1		
Kentucky warbler				5	3		
common yellowthroat			1	6	2		
hooded warbler				5			
American redstart				1			
redwinged blackbird	2	5	6				
orchard oriole				36			
Baltimore oriole				2			
common grackle	30	1	3				

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Study Area 10 (Cont.)			Cen	sus Da	tes		
Species	12/10	2/11	3/11				
brown-headed cowbird			1	4	20		
scarlet tanager				1			
summer tanager	<u> </u>			1	2	ļ	<u> </u>
cardinal	44	69	82	38	41	<u> </u>	
indigo bunting	1			12	13	<u> </u>	<u> </u>
painted bunting	ļ			1	10	<u> </u>	<u> </u>
American goldfinch	31	53	14				
rufous-sided towhee	1	2	1	1			
savannah sparrow		5					
Henslow's sparrow		2				l L	
LeConte's sparrow		1			_		
slate-colored junco		36					
field sparrow	4	2	2				İ
white-throated sparrow	87	276	55	26			
fox sparrow		3]			
Lincoln's sparrow		` 5		2			
swamp sparrow	3	11	1	-			
song. sparrow	1	2	į				
Total Individuals	438	1284	732	311	298		
Total Census Species	38	51	50	_ 55	42		

Total Species All Censuses: 101 (plus 1 non-census species= 102).
Total Individuals All Censuses: 3,663 (avg. 613 per census).

In the subsequent tab¹es where relative impact assessments are given, they have been assigned the following range of subjective values:

Very adverse
Moderately adverse
Slightly adverse
None
Slightly beneficial
Moderately beneficial
Very beneficial

LIST OF INVERTEBRATES REPORTED FROM THE TRINITY RIVER BASIN

Spec	

Habitat

PHYLUM PROTOZOA (one-celled animals)
Superclass Mastigophora
Class Phytomastigophora
Order Chrysomonodida
Dinobryon spp.

Fresh water

Order Dinoflagellida <u>Ceratium</u> spp. <u>Peridinium</u> spp.

Estuarine Upper estuary

Order Euglenida Euglena spp. Phacus spp.

Fresh water Fresh water

Order Volvocida
Pandorina spp.
Eudorina spp.
Volvox spp.

Fresh water Fresh water Fresh water

Class Zoomastigophora Order Kinestoplastida Bobo spp.

Bobo spp. Monas spp. Fresh water Fresh water

Superclass Sarcodina Class Hyraulea Order Amoebida Amoeba spp.

Fresh water

Order Arcinellinida
Arcella spp.
Centropyxis spp.
Difflugia spp.

Fresh water Fresh water Fresh water

Class Autotractea
Order Heliozoida
Actinophyrys spp.
Actinosphaerium spp.

Fresh water Fresh water

Species	Habitat
Superclass Ciliata Class Holotrichea Order Gymonostomatida Coleps hirtus Didinium spp. Loxophyllum spp. Procodon spp. Holophyra spp.	Fresh water Fresh water Fresh water Fresh water Fresh water
Order Hymenostomatida Paramecium spp.	Fresh water
Order Trichostomatida <u>Colpoda</u> spp.	Fresh water
Class Peritrichea Order Peritrichida Vorticella campanula	Fresh water
Class Spirotrichea Order Heterotrichida Stentor styloninchia Blepharisma lateritia	Fresh water Fresh water
Order Hypotrichida <u>Euplotes</u> <u>charon</u>	Fresh water
Order Oligotrichida <u>Halteria</u> spp.	Fresh water
PHYLUM PORIFERA (sponges) Class Desmosongia Subclass Monaxonida Family Spongillidae (fresh water sponges) Spongilla fragilis Spongilla lacustris Ephydatia crateriformis	Standing fresh water Running fresh water Rapid freshwater streams
Family Clionida (boring sponges) Cliona spp.	Estuarine oyster reefs

Species

Habitat

PHYLUM CNIDARIA (COELENTERATA) (jellyfishes, corals, etc.)

Class Hydrozoa

Order Hydroida (hydra)

Hydra viridis

Fresh water

Class Scyphozoa (jellyfish)

Order Semaeostomaeae

Aurelia aurita

Crespedacusta sowerbyi

Estuary and marine Freshwater lakes

PHYLUM CTENOPHORA (comb jellyfish)

Class Tentaculata

Mnemiopsis <u>leidyi</u>

Lower estuary

Class Nuda

Beröe ovata

Lower estuary

PHYLUM PLATYHELMINTHES (flatworms)
Class Turbellaria (free-living)

Order Alloecoela

Stylochus ellipticus

Oyster reefs

Class Trematoda (parasites)

Order Monogenea

Urocleidus attentuatus

Urocleidus chrysops

Urocleidus grandis Urocleidus principalis

Cleidodiscus pricei

Cleidodiscus robustus Actinocleidus longus Actinocleidus fergusoni

Dactylogyris perlus

Order Aspidobothrea Cotylaspis insignis

Aspidogaster conchicola

Ectoparasite on fish, turtles and amphibians opense of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the

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Found on gills of fresh-

water fish

Found in pericardial cavity

of freshwater fish

do.

Species	Habitat
Order Digenea Posthodiplostomum minimum Paramphistomomum stunkardi Phyllodistomum lohrenzi Bucephalus elegans Cercaria ambelmae	Freshwater areas Freshwater areas Freshwater areas Freshwater areas Endemic to Garza Little Elm Lake Freshwater areas
Strigeid metacercariae	rreshwater areas
Class Cestoda (parasites) Order Proteocephalidea Proteocephalus ambloplites	Fresh water
PHYLUM ROTIFERA (wheel animalcules) Brachionus angularis Brachionus urceolares Brachionus calyciflorus Asplanchuna spp. Monostyla spp. Conochilus spp. Synchaeta spp. Platyias patulus Platyias quadricornis Trichocerca sp.	Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water
PHYLUM ACANTHOCEPHALA (spiny-headed worms Order Eoacanthocephala Neoechinohynchus cylindratum) Parasite of freshwater fish
PHYLUM RHYNCHOCOELA (nemerteans) Class Anopla Order Heteronermertini Cerebratulus spp.	Lower estuary
Class Enopla Order Bdellonemertini <u>Malacobdella</u> sp.	Mantle cavity of salt water clams, oysters

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Species

Habitat

PHYLUM NEMATODA (nematodes)

Order Enoploidea

Many species and most common organism in bottom samples of Trinity Bay and Estuary.

PHYLUM ECTOPROCTA (moss animals)

Order Cheilostomata

Membranipora spp.

Bugula spp.

Oyster reefs

Oyster reefs, pilings

PHYLUM ANNELIDA (common worms)

Class Polychaeta (marine worms)

Family Glyceridae

Glycera americana

Middle estuary

Family Lumbrineridae

Lumbrineris tenuis

Middle estuary

Family Nephytidae

Nephtys spp.

Middle and lower estuary

Family Nereidae

Nereis succinea

Estuary and oyster reefs

Family Onophidae

Diopatra cuprea

Lower tuary

Family Capitellidae

Mediomastis californiensis

Middle to lower estuary

Family Spionidae

Polydora <u>ligni</u>

Streblospio benedicti

Oyster reefs

Middle estuary and reefs

Family Indeterminate

Loandalia fauveli

Amphicties gunneri floridus

Estuary Estuary

Class Oligochaeta (earthworms)

Order Plesiospora

Tubifex tubifex

Polluted fresh waters

Species	Habitat
<u>Limnodrilis</u> sp. <u>Nais</u> sp. Parascolex gabriellae	Fresh water Fresh water, in algae Estuary
Order Opisthopora <u>Diplocardia sandersi</u>	Terrestrial
Class Hirudinea (leeches) Order Rhynchobdellida Helobdella elongata Helobdella lineata Glossiphonia sp.	Fresh water Fresh water Fresh water
PHYLUM MOLLUSCA (mollusks) Class Pelecypoda (clams) Order Nuculacea (nut clams) Nuculana eborea	Middle and lower estuary
Order Arcaea (arks) <u>Anadara transversa</u>	Lower estuary, oyster reefs
Order Mytiliacea (mussels) Brachidontes recurvus	Oyster reefs
Order Anomiidea (jingle shells) <u>Anomia simplex</u>	Oyster reefs
Order Ostreacea (oysters) Crassostrea virginica	Oyster reefs
Order Cardititacea (freshwater clams) Anodonta corpulenta Anodonta imbecillis Anodonta grandis Anodonta ohionsis Lampsilis tampicoensis Lampsilis fasciata hydiana Lampsilis teres Lampsilis teres Lampsilis lienosa Lampsilis cardium satura	Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water

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Species	Habitat
Quadrula nodulata	Fresh water
Quadrula quadrula aspera	Fresh water
Quadrula quadrula apiculata	Fresh water
Quadrula quadrula speciosa	Fresh water
Quadrula quadrula forsheyi	Fresh water
Quadrula quadrula mortoni	Fresh water
Quadrula petrina	Fresh water
Quadrula houstonensis	Fresh water
Quadrula pustulosa	Fresh water
Quadrula ridelli	Fresh water
Quadrula flava nasuta	Fresh water
Quadrula undata chunis	Fresh water
Quadrula askervi	Fresh water
Strophitus subvexus Strophitus undulatus	Fresh water Fresh water
Leptodea fragilis	Fresh water, mud bottom
Leptodea laevissima	Fresh water, midd bottom
Lasmigona costata	Fresh water
Amblema perplicata	Fresh water
Amblema plicata costata	Fresh water
Amblema plicata perplicata	Fresh water
Amblema gigantea	Fresh water
Amblema dambeyana (plectomerus)	Fresh water
Sphaerium sp.	Fresh water
Order Mactracea	
Mulinia lateralis	Entino ostupnu
Rangia cuneata	Entire estuary
Abra aequalis	Upper estuary Lower estuary
Macoma mitchelli	Upper to middle estuary
indexina infection for	opper to middle estuary
Class Gastropoda (snails)	
Subclass Prosobranchia	
Order Mesogastropoda	
Viviparus sp.	Fresh water
Littorina irrorata	Brackish marshes
Littoridina sphinctostoma	Upper estuary, mud bottom
Crepidula plana	Oyster reefs
Polinices duplicatus	Lower estuary
Order Neogastropoda	
Thais haemastoma floridana	Oyster reefs
Mitrella lunata	Oyster reefs, middle bay
Nassarius acutus	Middle and lower estuary
	made and toner country

Species	Habitat
Subclass Opisthobranchia	
Order Pyramidellacea	
Turbonilla interrupta	Middle and lower estuary
	••••••••••••••••••••••••••••••••••••••
Order Cephalaspidea	
Retusa canaliculata	Upper to middle estuary
	•
Subclass Pulmonata (land and fresh	uator snails)
Order Basommatophora	race: sharrs,
Physa virgata	Fresh water
Physa integra	Fresh water
Ferrissia rivularis	Fresh water
Helisoma trivolis	Terrestrial
Helisoma anceps	Terrestrial
Gyraulus parvus	Terrestrial
and the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contr	
Order Stylommatophora	
Polygyra texasiana	Moist woodlands
Polygyra leporina	Moist woodlands
Polygyra mooreana	Moist woodlands
Polygyra dorfeuilliana	Moist woodlands
Polygyra septemvolva volvovis	Moist woodlands
Triodopsis henriettae	Moist woodlands
Triodopsis vultuosa	Moist woodlands
Triodopsis cragini	Moist woodlands
Mesodon thyroidus	Moist woodlands
Stenotrema leai aliciae	Moist woodlands
Class Cephalopoda (squid, octopus)	
Order Decapoda	
<u>Loliguncula</u> brevis	Lower estuary
DUVI IIM ADTUDODODA	
PHYLUM ARTHROPODA	
Class Crustacea	
Subclass Branchiopoda Order Cladocera (waterfleas)	
Diaphanosoma brachyurum	Unnan Trinity Laker
Polyphemus spp.	Upper Trinity Lakes Upper Trinity Lakes
Daphnia longispina	Upper Trinity Lakes
Daphnia pulex	Pools and lakes
Daphnia obtusa	Pools and Lakes
Daphnia arcuata	Lake Arlington
Bosmina spp.	Upper Trinity Lakes
Pleuroxus hamulatus	Lake Worth
· roar ortho (Mind the Bad)	Lanc not on

Species Habitat Pleuroxus aduncus Lake Worth Pleuroxus denticulatus Lake Worth Chydorus sphaericus Tarrant County, Trinity River Chydorus globosus Tarrant County, Trinity River Alonella diaphana Dallas County Alona costata Tarrant and Dallas Counties Moina rectirostris Denton and Tarrant Counties Moina paradoxa Denton and Tarrant Counties Ceriodaphnia pulchella Ceriodaphnia laticaudata Tarrant County Tarrant County Ceriodaphnia rotunda Tarrant County Scapholeberis mucronata All north Texas Simocephalus vetulus All north Texas Simocephalus exspinosus Tarrant County Simocephalus serrulatus Tarrant and Denton Counties Macrothrix laticornis Denton County Macrothrix borysthenica Dallas County Macrothrix rosea Denton County Subclass Copepoda Order Calanoida Diaptomus spp. Fresh water Calanus spp. Estuary Pseudocalanus spp. Estuary Centropages spp. Estuary Acartia tonsa Estuary Order Harpacticoida Canthocamptus sp. Fresh water Harpacticus spp. Middle and lower estuary Order Cyclopoida Cyclops bicuspidatus thomasii Freshwater lakes Cyclops vernalis Freshwater lakes Order Branchiura Argulus sp. Parasitic on fish Subclass Cirripedia (barnacles) Order Thoracica Balanus eburneus Whole estuary Balanus improvisus Lower estuary

Lower estuary

Subclass Malacostraca Order Mysidacea <u>Mysis relicta</u> LINES AND FIFTH ALCHARITATION OF THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PART

Species	Habitat
Gastrosaccus dissimilis	Lower estuary
Mysidopsis bigelowi	Lower estuary
Order Cumacea	
<u>Cyclaspis</u> varians	Lower estuary
Oxyurostylis salinoi	Lower estuary
Order Tanaidacea	
<u>Leptochelia</u> rapax	Lower estuary
Order Isopoda	
<u>Edotea montosa</u>	Lower estuary
<u>Ligia</u> <u>exotica</u>	Estuary pilings
Order Amphipoda	
Ampelisca sp.	Estuary
Cymadusa compta	Lower estuary
Corophium louisianum	Lower estuary
Microprotopus raneyi	Lower estuary
Caprella equilibra	Lower estuary, oyster reef
Paracaprella pusilla	Lower estuary, oyster reef
Order Decapoda	
Penaeus aztecus	Lower estuary
Penaeus duoarum	Middle to lower estuary
Penaeus setiferus	Whole estuary
Macrobrachium ohione	Lower river
Palaemonetes pugio	Lower estuary
Palaemonetes vulgaris Clibinarius vittatus	Lower estuary
Pagunus Jongjeannus	Middle and lower estuary Middle and lower estuary
Pagurus longicarpus Callinectes sapidus	Whole estuary
Neopanope texana sayi	Middle and lower estuary
Rhithropanopeus harrissi	Middle estuary
Procambarus blandingi acutus	Flowing streams
Procambarus clarki	Clear permanent freshwater
Procambarus dupratzi	Flowing water, clear and turbid
Procambarus simulans	Freshwater lakes
Cambarus hedgpethi	Moist banks, fresh water
Cambarellus shufeldti	Shallow freshwater bodies
Cambarellus puer	Fresh water
Orconectes palmeri longimanus	Flowing fresh waters
<u>Uca pugnax</u>	Estuarine marshes

Species	Habitat
Class Insecta (aquatic forms in Trinity River Order Odonata (dragonflies and damselflies)	Basin)
Family Libellulidae (skimmers)	Moist areas, near streams
Family Gomphidae (clubtails)	Rocks in streams
Family Agrionidae (broad-winged damselflies)	Rocks in swift waters
Family Coenagrionidae (narrow-winged damselflies)	Vegetated marshlands
Order Hemiptera (bugs) Family Gelasticoridae (toad bugs)	Wet areas, along shore
Family Corixidae (water boatmen)	Ponds, slow streams
Family Notonectidae (back swimmers)	Standing or running water
Family Gerridae (water striders)	Ponds or lakes, surface
<pre>Family Veliidae (broad-shouldered water striders)</pre>	Streams
Family Saldidae (water treaders)	Wet areas in debris
Order Coleoptera (beetles) Family Haliplidae (crawling water beetles)	Shallow still water
Family Dytiscidae (predaceous diving beetles)	Shallow still water
Family Gyrinidae (whirligig beetles)	Among aquatic plants
Family Hydrophilidae (water scavenger beetles)	Quiet waters, ponds
<pre>Family Cryopidae (riffle beetles)</pre>	Stones in flowing waters

Habitat
Calm stagnant waters
Streams and ponds
Ponds, rivers, and lakes
Subaquatic, lowlands
Fresh, brackish, salt water
Margins of water bodies
Fast flowing streams
Running water
Cool clear streams
Still or running water
Rocks in streams
Rapid streams
Margins of rapid streams
Muddy bottoms, quiet water
Slow moving streams

Species Habitat

Family Caenidae Freshwater, sandy bottom (mayflies)

Family Heptageniidae Rapidly flowing waters (mayflies)

PHYLUM CHAETOGNATHA (arrow worms)
Sagitta elegans

Lower estuary

Classification follows: Wass and others (1972)

References used: Ubelaker (1971); Fisher, Hall, Jones, McCullough, and Nixon (1973); Solomon and Smith (1973); and Ryckman/ Edgerley/Tomlinson & Associates, Inc. (1974)

FISH OF TRINITY RIVER ORAINAGE

	Habitat and/or	Range in Texas and	Abundance		Project
Species	Seasonal Status	North America	in Pegion	Values	Impact
FAMILY PETROMYZONTIDAE (lampreys)					
Ichthyomyzon gagei	Fresh water rivers,	East Texas	Unknown	Serious pest on	None
Southern brook lamprey	streams	North America range: lower Mississippi drainage from		sports fish	
		western Florida			
FAMILY CARCHARHINIDAE (requiem sharks)					
Carcharhinus leucas Bull shark	Coastal (marine invader)	Occasional marine invader to main channel in lower Trinity basin	Uncommon	Economic (skin some- times used as leather), low food, low	None
		North America range: Atlantic and Pacific north to North Carolina, rarely to New York			
FAMILY DASYATIDAE (stingrays)					
Dasyatis sabina Atlantic stingray	Coastal (marine invader)	Occasional marine invader to main channel in lower Trinity basin	Uncommon	Food, low	None
		North America range: Atlantic, Chesapeake Bay and south			
FAMILY POLYODONTIDAE (paddlefishes)					
Polyodon spathula	Silty rivers, oxbows	East Texas	Rare	Food value, moderate	None
Paddletish	and flood-plain lakes	North America range: Great Lakes, Mississippi River system			
FAMILY LEPISOSTEIDAE (gars)					
<u>Lepisosteus</u> <u>oculatus</u> Spotted gar	Small rivers, oxbows, swamps, flood-plain sloughs, borrow pits,	Statewide except in Trans-Pecos and Western plains	Abundant	Medium food value, SI low economic in volume	Slightly beneficial
	uarkstaineu aciu Streams	North America range: southeastern United States			

Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
Lepisosteus osseus Longnose gar	Large and small rivers, oxbows, swamps, floodplain sloughs, borrow pits, dark-stained acid streams	Statewide North America range: Montana and Vermont, south to Mexico and Florida	Abundant	Low food value	Moderately beneficial
Lepisosteus platostomus Shortnose gar	Large rivers, oxbows, swamps, flood-plains sloughs, borrow pits	Northern portions of east Texas, black- land prairie, cross timbers, plains North America range: muddy rivers of Mississippi drainage system	Abundant	Low food value	Moderately beneficial
Lepisosteus spatula Alligator gar	Large river channels, oxbows, swamps, flood- plain sloughs, borrow pits	Eastern Texas, coastal Abundant prairie, southern Texas, northern part blackland prairie North America range: larger rivers of the Mississippi River drainage and Gulf tributaries	Abundan t	Medium food value, high economic in volume	Slightly beneficial
Lepisosteus spatula x (presumably) Lepisosteus osseus Hybrid FAMILY AMIIDAE (bowfins)	River channel, oxbows, flood-plain sloughs	Lower Trinity basin North America range: unknown	Abundant	Low food value	Slightly beneficial
Amia <u>calva</u> Bowfins FAMILY ELOPIDAE (tarpons)	Large river channels, oxbow lakes, swamps, flood-plain sloughs, borrow pits, dark- stained acid streams	Eastern Texas and coastal prairie North America range: Minnesota to Quebec south, west of Appalachians, to Texas and Florida	Abundant	Economic, none; biological, low	Slightly beneficial
Elops saurus Ladyfish	Estuaries, coast	Coastal (marine invader) North America range: coastal Atlantic, Maine and south	Опсонто п	Economic, none; biological, intermediate	None

	Habitat and/or	Range in Texas and	Abundance	2011-1	Project
Species	Seasonal Status	North America	in kedini	Yalues	7772 41117
FAMILY ANGUILLIDAE (freshwater eels)					
Anguilla rostrata	Large and small river	Eastern one-third	Uncommon	Economic (food)	None
American eel	Swamps, flood-plain sloughs, borrow pits,	North America range: Atlantic and Gulf coast			
	streams, hibernates in mud				
FAMILY OPHICHTHIDAE (snake eels)					
Myrophis punctatus	Occasional marine	Unknown	Uncommon	Biological, low	None
Speckied worm eei	Invader	North America range: Atlantic and Gulf coast			
FAMILY CLUPEIDAE (herrings)					
Alosa chrysochloris Skipjack herring	Large river channels, uncommon in small	Eastern part of Texas	Uncommon	None	None
	rlvers, oxbows, swamps, sloughs and borrow pits	North America range: scuth-central United States, Mississippi drainage			
		system			
Brevoortia patronus		Coastal to Freeport	Abundant	Economic, very high;	None
5ult menhaden	snore sneit, seasonally abundant October through December	North America range: Atlantic and Gulf coast		D1010g1Ca1, n1gn	
Dorosoma cepedianum	Large river channels,	Statewide	Abundant	Economic low; Modera	Moderately beneficial
G1zzard shad	small river, oxbows, swamps, flood-plain sloughs, borrow pits	North America range: eastern half United States, Atlantic and Gulf coast		b10log1cal, nign	
Dorosoma petenese	Large river channels,	Eastern half	Abundant	Economic, low; Modera	Moderately beneficial
Ihreadtin shad	small rivers, oxbows, swamps, flood-plain sloughs, borrow pits	North America range: Gulf of Mexico entering streams from Florida to Mexico, penetrating far up- stream		biological. nign	

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
FAMILY ENGRAULIDAE (anchovies)					
Anchoa mitchilli	Marine invader to main	Coastal	Uncommon	Economic, moderate	None
bay anchovy	cnannei, sandy snores, estuaries	North America range: Atlantic and Gulf coast, Maine to Texas		bait, high biological, high	a],
FAMILY ESOCIDAE (pikes)					
Esox americanus vermiculatus	Flood-plain sloughs,	Eastern Texas	Abundant	Sports value moderate	ite
	streams	North America range: Iowa southeast through Ohio Valley and southward to Gulf states from Texas to Florida			Moderately beneficial
FAMILY CHARACIDAE (tetra)					
Astyanax mexicanus Mexican tetra	Fresh-water streams (introduced species)	Western to south- western and south- central Texas	Rare	Aesthetic	None
		North America range: Texas, Tower Colorado River drainage system of Arizona and New Mexico			
FAMILY CYPRINIDAE (minnows and carps)					
Campostoma anomalum Stoneroller	Clear creeks and small rivers	Central Texas from north South Texas to the Red River	Uncommon	Bait, low biological, low	Moderately adverse
·		North America range: From Minnesota to Texas and eastward			
Carassius auratus Goldfish	Dense aquatic vegetation	Introduced central Texas	Abundant	Aesthatic	Moderately beneficial
		North America range: widely introduced in United States, native to Asia			

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Species	Habitat and/cr Seasonal Stætus	Range in Texas and North America	Abundance	Values	Project Impact
Cyprinus carpio	fter s	Statewide	Abundant	Food, moderate	Moderately beneficial
Carp	waters	North America range: widely introduced in United States from Europe, native to Asia		biologicai, nign	
Hybognathus nuchalis Silvery minnow	= -	Eastern Texas and blackland prairie	Abundant	Biological, low: bait	Moderately beneficial
	flood-plain sloudhs, borrow pits	North America range: Missouri drainage from Nontana to lower Champlain and south to Gulf along Atlantic coastal states, absent from Great Lakes			
Hybopsis aestivalis	Large river channels,	Statewide	Common	Biological, moderate	ite Medanotalia kanadaasa
Speck led Chub	Small rivers, large tributary creeks	North America range: Missouri River drainage to the Rio Grande and to west- ern Florida			Moderately beneficial
Notemigonus crysoleucas	Large river channels,	Eastern two-thirds	Abundant	Biological, moderate	ite Moderatelin beneficiel
	oxbows, swamps, crecks, plain sloughs, borrow pits, dark-stained acid streams	North America range: eastern half United States			Moderately beneficial
Notropis amnis Pallid shiner	Large river channels, small rivers, large	South-central to eastern Texas	Соптол	Bait, high	Moderately beneficial
	כן וחמנפנא כו הפאף	North America range: southeastern Minnesota and Indiana to eastern Texas			
Notropis atherinoides	Large river channels,	Eastern third	Uncommon	Bait, low	Slightly beneficial
	tributary creeks, ox- bcws, svamps, flood- plain sloughs, borrow	North America range: Carada and Great Lakes to Gulf coast			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Notropis atrocaudalis	Upper tributary	Eastern one-third	Uncommon	Bait, low	Unknown
Blackspot shiner	streams	North America range: eastern Texas, Oklahoma and Louisiana			
Notropis <u>buchanani</u> Ghost shiner	Large river channels.	Eastern two-thirds	Abundant	Bait, high	Slightly adverse
	uncommon in small rivers	North America range: Southern Minnesota through the Ohio River drainage system and south to Texas and Mexico			
Motropis emiliae	Small rivers, large	Eastern half	Abundant	Biological, lo	low Moderately beneficial
rugnose minnow	tributary creeks, oxbows, swamps, flood-plain sloughs, borrow pits and dark-stained acid streams	North America range: southern Minnesota to Michigan and south to Florida and Texas		balt, nign	
Notropis fumeus Ribbon shiner	Uncommon in large river channels, common in small rivers, large tributary creeks, oxbows, swamps, floodplin sloughs, borrow nits, dark-stained acid	Eastern one-third North America range: Missouri and Tennessee drainage System south to Texas	Abundant	Bait, high	Slightly adverse
	streams				
Notropis lutrensis	Large river channels,	Statewide	Abundanı	Bait, high S	Slightly beneficial
ked sniner	small rivers, large tributary creeks	North America range: Wyoming to southern Minnesota and Illinois and south- ward to Mexico		Diological, m	oderate
Notropis potteri	Large river channels	North central Texas	Uncommon	Bait, low	Slightly beneficial
מנסס או זופן		North America range: central Texas and part of Oklahoma			

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Notropis shumardi	Large river channels	North-central Texas	Abundant	Bait, high	Slightly beneficial
Silverband shiner		North America range: Iowa southward to Texas			
Notropis stramineus	Unknown	Central Texas	Uncommon	Bait, low	Unknown
Sand shiner		North America range: North Dakota to the St. Lawrence and Ohio River drainage south to Mexico			
Notropis texanus Weed shiner	Small rivers, large tributary creeks, oxbows,	Eastern and south- eastern Texas	Abundant	Economic, high bait, high	Slightly beneficial
	swamps, rlood-Plain sloughs, borrow pits, dark-stained acid streams	North America range: Ninnesota and Michagan into Iowa and Illinois		, 100 gird	
Notropis umbratilis	Large river channels,	Eastern Texas	Abundant	Bait, high	Slightly beneficial
Kedfin shiner	small rivers and larger tributary creeks	North America range: Minnesota and east- ern Kansas,eastward to Lake Ontario, parts of eastern Texas, Kentucky and West Virginia			
Notropis venustus Blacktail shiner	Large river channels,	Eastern two-thirds	Abundant	Bait, high	Slightly adverse
	small rivers and large tributary creeks, ox- bows, swamps, flood- plain sloughs, borrow pits, dark-stained acid streams	North America range: southern Missouri to Texas, northern New Mexico to Florida			
Notropis volucellus	Large river channels,	Eastern two-thirds	Uncommon	Bait, low	Slightly adverse
manc samer	tributary creeks	North America range: Minnesota to Texas			
Notropis lutrensis x Notropis venustus	Large river channels, small rivers and large	Lower Trinity basin and tributaries	Abundant	Bait, high	Slightly beneficial
Hybrid	crioutary creeks	North America range: unknown			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Phenacobius mirabilis	Small rivers and large	Eastern third	Uncommon	None	Slightly adverse
Suckermouth minnow	tributary creeks	North America rarge: Colorado and South Dakota to western Ohio, Louisiana and Texas			
Pimephales promelas Fathead minnow	Oxbows, swamps, flood- plain sloughs, borrow pits	From north South Texas through central Texas to Red River	Abundant	Bait, high	Slightly beneficial
		North America range: Appalachians west to Rocky Mountains	-		
Pimephales vigilax Bullhead minnow	Large river channels, small rivers and large	Statewide except Trans-Pecos	Abundant	Biological, moderate bait, high	rate Slightly benefic [,] al
	cributary creeks	North America range: South Minnesota to West Virginia, northern Alabama and Oklahoma, Texas			
Semotilus atromaculatus Creek chub	Headwater creeks	Eastern East Texas, rare in tributary streams	Rare	FL'S. TON	Slinhtly adverse
		North America range: Montana, Manitoba to eastern Canada, south to Gulf			
FAMILY CATUSTOMIDAE (suckers)					
Carpiodes carpio	Large river channels,	Statewide	Abundant	Economic, low	Moderately beneficial
RIVET CATPOLIKYT	tributary creeks	North America range: eastern Montana to western Pennsylvania, south to Mexico and Tennessee			
Cycleptus <u>elongatus</u> Blue sucker	Large river channels	Statewide except northern Edwards Plateau and plains	Abundant	Biological, low	Sirutly adverse
		North America range: Mississippi drainage, south from southern Minnesota, Wisconsin			

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	Habitat and/or	Fang in Trian and North America	Abundance in Pegion	Values	Project Impact
Species Erimyzon oblongus Creek chubsucker	1 9	East Texas, eastern coastal prairie	Uncommon	None	Slightly beneficial
	stained acid streams	North America range: Minnesota to Connecticut and southward			
Erimyzon sucetta Lake chubsucker	Small rivers and large tributary creeks, ox-	Eastern Texas and coastal prairie	Uncommon	Low, biological	Moderately beneficial
	bows, swamps, flood- plain sloughs, borrow pits, headwater creeks, dark-stained acid streams	North America range: Minnesota to Connecticut and southward			
Ictiobus bubalus Smallmouth buffalo	Large river channels, oxbows, swamps, flood-	Statewide except western plains	Сситоп	Sport and food, moderate; biologi moderate	Sport and food, Moderately beneficial moderate; biological, moderate
	pian stougns, borrow	North America range: southern Wisconson to West Virginia south to eastern Texas and Louisiana			
Ictiobus niger	Large river channels,	Northeast Texas	Common	Economic, moderate	e Slightly adverse
Black buffalo	oxbows, swamps, flood- plain sloughs, borrow pits	North America range: southern Wisconson to West Virginia south to eastern Texas and Louisiana		Sport and lood, moderate	
Minytrema melanops	Small rivers and large	Eastern one-third	Uncommon	None	Slightly adverse
Spotted sucker	tributary creeks, ox- bows, swamps, flood- plain sloughs, borrow pits, headwater creeks, dark-stained acid streams	North America range: Great Lakes south to North Carolina and Texas			
Moxostoma <u>congestum</u> Gray redhorse	Streams, creeks, oxbows, sloughs	Central Texas through northern Texas	Uncommon	Biological, low	Slightly beneficial
		North America range: southern Mississippi Valley drainage			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Moxostoma poecilurum Blacktail redhorse	Small rivers and large tributary creeks, head- water creeks and dark-	East Texas and eastern coastal prairies	Uncommon	Biological, low	Slightly adverse
	stained acid streams	North America range: southern Mississippi Valley drainage			
FAMILY ICTALURIDAE (freshwater catfishes)					
icalurus furcatus Blue catfish	Large river channels, oxbows, swamps, flood- plain sloughs	Statewide except Edwards Plateau and southwest plains	Abundant	Economic, high Si biological, moderate	Slightly beneficial ate
		North America range: large rivers of Mississippi River valley and impound- ments			
ictalurus melas Black bullhead	Small rivers and large tributary creeks, ox- bows, swamps, flood- plain sloughs, borrow	Statewide except western Edwards Plateau, rare in Trans-Pecos	Соптоп	Low sport and food value	Moderately beneficial
	pits, headwater creeks, dark-stained acid streams	North America range: Montana to western New York, south to Mexico and Florida			
ictalurus natalis Yellow bullhead	Small rivers, large tributary creeks, ox- bows, swamps, flood	Eastern half except in southern South Texas	Common	Economic, high M biological, moderate	Moderately beneficial ate
	plain sloughs, borrow pits, headwater creeks dark-stained acid streams	North America range: North Dakota to Vermont, south to Mexico and Florida			
Ictalurus punctatus	Large river channels,	Statewide	Abundant	Economic, high as	Moderately beneficial
Channel Cattish	small rivers and large tributary creeks, ox- bows, swamps, flood- plain sloughs, borrow pits	North America range: widely distributed in central and eastern United States		rood and sport, biological, moderate	a te

		Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
Noturus flavus Stonecat		May not occur North America range:	Rare	Biological, low	None
	lake-snore waters	northern Montana, southeast to north Arkansas and east			
Noturus gyrinus	Small rivers, large	Eastern one-third	Uncommon	Biological, low	Slightly beneficial
	crouding creeks, oxbows, swamps, flood-plain sloughs, borrow pits, headwater creeks, darkstained acid streams	North America range: northern Wisconsin to Vermont and south to Gulf	·		
Noturus nocturnus Freckled madtom	Small rivers, large tributary creeks,	Eastern and north- east	Rare	Biological, low	Slightly beneficial
	neauwater Creeks, dark. stained acid creeks	North America range: Mississippi Valley drainage system to Gulf			
Pylodictis olivaris	Large river channels,	Statewide	Common	Economic, moderate	Economic, moderate Moderately beneficial
	oxoows, swamps, riood- plain sloughs, borrow pits	North America range: South Dakota to western Pennsylvania, south to Gulf		biological, moderate	te
FAMILY ARIIDAE (sea catfishes)					
Arius felis Sea catfish	Marine, nearshore shelf, clay bottom	Coastal marine invader	Abundant in Gulf, few in	Nuisance to sports fishing, some food	None
		North America range: Atlantic coast from North Carolina to Gulf of Mexico	waterway	value	
FAMILY APHREDODERIDAE (pirate perches)					
Aphredoderus Pirate perch	Small rivers, large tributary creeks, oxbows, flood-plain sloughs, borrow pits, headwater creeks, dark-stained acid streams	Eastern one-third North America range: Minnesota to western Ohio, south to East Texas and Gulf coast states	Uncommon	Го₩	Moderately beneficial

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Pegion	Values	Project Impact
FAMILY BELONIDAE (needlefishes)					
Strongylura marina Atlantic needlefish	Marine,frequently ascending rivers	Extending through and slightly north and southwest of coastal plain	Common	None	None
		North America range: rarely north of Cape Cod to Gulf of Mexico			
FAMILY CYPRINGCONTIDAE (killifishes)					
Adinia xenica	Marine, estuarine	Coastal	Uncommon	Biological, 10%	None
Ulamond VIIIIsh	ascending rivers	North America range: Gulf coast			
Cyprinodon variegatus Sheepshead minnow	Fresh water bayous and marshes	Coastal plain and southern South Texas	Сонтол	Bait, moderate biological, moderate	None
		North America range: Cape Cod to Texas coast			
Fundulus chrysotus	Oxbows, swamps, flood-	Eastern one-third	Uncommon	Biological, low M	Moderately beneficial
Golden topminnck	piain sloughs, borrow pits, dark-stained acid streams	North America range: Mississippi Valley drainage			
Fundulus grandis	Marine, estuarine	Coastal	Abundant	Bait, high	None
		North America range: Gulf coast			
Fundulus jenkinsi		Coastal plains	Uncommon	Biological, low	None
saltmarsh topminnow	occurring in estuarine and fresh waters	North America range: Texas coast			
Fundulus kansae	Streams, creeks	Central Texas	Common	Aesthetic, excellent	
		North America range: nlains states, central United States		dquarium rish	siightiy adverse

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	Habitat and/or Seasonal Status	and Horth America	Abundance in Region	Values	
Species sociative sociative	Small rivers, large	Eastern Texas	Conmon	Biological, moderate	: Slightly benef:
Blackstripe topminnow	tributary creeks, oxbows, swambs, flood-plain sloudhs,	North America range: eastern Iowa to southern Michinan			
	borrow pits, dark- stained acid streams	and Ohio, south to eastern lexas, Mississippi and Tennessee			
**************************************	Oxbows, swamps, flood-	Eastern Texas	Uncommon	Biological, low	Slightly beneficial
Starhead topminnow	plain sloughs, borrow pits, dark-stained	North America range: Lake Michigan			
	acid stredms	drainage, Mississinoi Valley to western Tennesse			
21122001 (2 211012012	Small streams, large	Eastern Texas	Common	Biological, low	Moderately beneficial
Blackspotted topminnow	tributary creeks, ox- bows, swamps, flood- plain sloughs, borrow oits, headwater creeks dark-stained acid	North America range: 41ssissippi Valley drainage			
•	creeks Maring fromionily	Coastal plains	Uncommon	Biological, low	None
Fundulus nulvoreus Bayou killifish	found in estuarine and fresh waters	Morth America range: Atlantic and Gulf			
	•	coastal Waters	Ahundant	Bait, high	None
Fundulus similis Longnose killiffsh	Marine, estuarine	Codstal fronty our North America range: Gulf coast from Florida to Texas		biological, high	
7,110	Marine frequently	Coastal plains	Uncommon	Bait, low	None
Rainwater killiffsh	occurring in estuarine and fresh water	North America range: Atlantic coast from Connecticut to Gulf			
FAMILY POECILIIDAE (livebearers)	anned route	مهريموندس	Abundant	High as mosquito	Moderately beneficial
Gambusia affinis Mosquitofish	Large rivers continues, small rivers and larger tributary creeks, oxbows, swamps, flood-plain sloughs, borrow pits, headwater creeks, dark-stained acid	North America range: south and south- eastern Jnited States		control; biological high	•

		Range in Texas			
Spectes	Habitat and/or Seasonal Status	and Horth America	Abundance in Region	Values	Project Impact
Poecilia latipinna	Fresh, brackish and	Coastal waters	Common	Mosaulto control,	None
Sailfin moily	sea water, oxbows, swamps, flood-plain sloudhs, borrow pits,	North America range: Atlantic from South Carolina to		tropical fish sales	
	dark-stained acid streams	Gulf of Mexico			
FAMILY ATHERINIDAE (silversides)					
Labidesthes sicculus Brook silverside	Oxbows, swamps, flood- plain sloughs, borrow	Northeast Texas coast	Uncommon	Low	Moderately beneficial
	pits	North America range: Minnesota to the Appalachians, south to eastern Texas and Florida			
Membras martinica	Salt bayous and lake	Coastal Texas bays	Abundant	Bait, high	None
Kough silverside	snore, coastal	North America range: Atlantic coast from New York to Gulf of Mexico			
Menidia audens	Large river channels,	Hortheast Texas	Uncommon	Bait, low	Moderately beneficial
Mississippi silverside	oxbows, slougns, swamps, borrow pits	North America range: Gulf coast			
Menidia beryllina Tidewater silverside	Coastal, bayous and marshes, estuaries	Southeast Texas coast	Common	Bait, high	None
		North America range: Atlantic coast from Massachusetts to Gulf of Mexico			
FAMILY SYNGNATHIDAE (pipefishes and seahorses)	ses)				
Syngnathus scovelli Gulf pipefish	Coastal, bayous and marshes, estuaries	Coastal Texas grass flats and passes	Rare	Low, aesthetic	None
		North America range: Gulf of Mexico			
FAMILY PERCICHTHYIDAE (temperate basses)					
Morone chrysops White bass	Large river channels, oxbows, flood-plain	Statewide excent in Trans-Pecos	Uncommon	Sport and food, moderate	Very beneficial
	sloughs, swamps, borrow pits	North America range: southern Minnesota to western New York, south to Mexico and Gulf	£		

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Project Impact	Sport and food, Very beneficial	moderate	Sport and food, Very beneficial moderate	Sports and food, Slightly beneficial high	Ciinkilv beneficial	Low		Low sport and food value	design of the second	Low sport and mouer arely access food value		Sport and tood, Moderacely belief of the high
Abundance	Uncommon		Uncormon	Common		Uncormon		Uncommon		Common		Common
S	ica	North America range: North America range: Minnesota to Indiana, South to eastern	lexas and recount Coastal (introduced inland) North America range: Gulf of St. Lawrence to Gulf of Mexico	Eastern Texas North America range: Virginia southward	near coast to Florida to Louisiana and Texas, northward sparingly in the Mississippi Valley	Eastern Texas	introduced in southern United	Central Texas and Edwards Plateau	North America range: New Brunswick to Florida and intro- duced in southwest	Statewide	North America range: South Dakota to New York and south to New Mexico and Texas	Statewide North America range: Kansas, Michigan and New York south to the Gulf
) pur + region	Seasonal Status	Large river channels, oxbows, swamps, flood- plain sloughs, borrow pits	Large river channels, (introduced in lakes) anadromous	Oxbows, swamps, flood- plain sloughs, borrow pits, dark-stained	acid streams	Small rivers, large	creeks, okuoma, sloughs, borrow pits	Rivers, streams, creeks		samil rivers and large	tributary creeks, head- water creeks and dark- stained acid streams	Large river channels, small rivers and large tributary creeks, oxbows, swamps, floodplain sloughs, borrow plain sloughs, borrow dark-stained
		Species Horone mississippiensis Yellow bass	Morone saxatilis Striped bass	FAMILY CENTRARCHIDAE (sunfishes) Centrarchus macropterus Flier		rases and time	Elassonia <u>contraction</u> Banded pygmy sunfish	l anomis auritus	Redbreast sunfish		Lepomis cyanellus Green sunfish	<u>Lepomis gulosus</u> Warmouth

		Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
Lepomis humilis Orangespotted sunfish	Large river channels	Eastern third of state	Соптоп	Sport and food, moderate	Slightly adverse
		North America range: Dakotas to Ohio, south to New Mexico, Mississippi			
Lepomis macrochirus	Large river channels,	Statewide	Abundant	Sport and food,	Moderately beneficial
Bluegill	small rivers, large tributary creeks, ox- bows, swamps, sloughs, borrow pits, and dark- stained acid strean	North America range: eastern half of United States, Great Lakes, north to New Jersey		19 10 11	
<u>Lepomis marginatus</u>	Oxbows, swamps, sloughs,	Eastern Texas	Uncommon	Sport, low	Slightly beneficial
Dollar sunfish	borrow pits	North America range: southern Mississippi basin			
Lepomis megalotis	Rivers, creeks, oxbows,	Statewide	Common	Sport and food,	Moderately beneficial
Longear sunfish	swamps, sloudns, borrow pits	North America range: Great Lakes south- west to Nebraska, and south to Texas and Florida		= 	
Lepomis microlophus Redear sunfish	Small rivers, large creeks, oxbows, swambs,	Statewide, rare.in Trans-Pecos	Соптол	Sport and food, high	Slightly beneficial
	sloughs, borrow pits	North America range: Mississippi Valley, Iowa to Indiana and south to Gulf			
Lepomis punctatus Spotted sunfish	Small rivers, creeks, oxbows, swamps, sloughs, borrow pits	Eastern Texas, rare in central third of state	Rare	Low	Slightly beneficial
		North America range: Mississippi Basin from southern Indiana south			
Lepomis symmetricus	Oxbows, swamps, sloughs,	Eastern Texas	Rare	Low value, except	None
Bantam sunfish	borrow pits	North America range: Mississipoi Valley from southern Illinois		ds rarity	

Species	Habitat and/or Seasonal Status	Runge in Texas and North America	Abundance in Region	\alues	Project Impact
Lepomis cyanellus x Lenomis macrochirus	Streams, creeks, ox-	Statewide	Соптоп	Sport and food,	Slightly beneficial
Hybrids	bows, swamps, slougns, borrow pits	North America range: unknown		ngra	
Lepomis cyanellus × Lepomis microlophus Hybrids	Streams, creeks, oxbows, swamps, sloughs,	Statewide except Trans-Pecos	Common	Sport and food, moderate	Slightly teneficial
	borrow pits	North America range: unknown			
Micropterus punctulatus		Eastern third	Uncommon	Sport, high	Slightly adverse
Spotted bass	tributary creeks, acid streams	North America range: northern West Virginia to central Kansas and south to Gulf of Mexico			
Micropterus salmoides	Small rivers, large	Statewide	Соптоп	Sport, high	Moderately beneficial
Largemouth bass	tributary creeks, oxbows, swamns, sloughs, borrow pits	North America range: eastern half of United States,widely introduced			
Pomoxis annularis White crappie	Large river channels, oxbows, swamps, flood-	Statewide except Trans-Pecos	Common	Sport and food, high	Moderately beneficial
	plair sloughs, borrow pits	North America range: eastern South Dakota to southwestern New York and south to Gulf			
Pomoxis nigromaculatus Black crannie	Large viver channels, oxbows, swamps, flood-	Eastern third state	Common	Sport and food,	Moderately beneficial
	plain sloughs, borrow pits	North America range: eastern half of United States			
FAMILY PERCIDAE (perches)					
Amocrypta vivax	Small rivers, large	Eastern Texas	Uncommon	None	Slightly adverse
סכמול סמות תמו רכן		North America range: temperate waters, eastern United States			

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Species	Habitat and/or Seasonal Status	Range in lexas and North America	Abundance in Region	Values	Project Impact
Etheostoma chlorosomum	Small rivers, creeks,	Eastern third	Uncommon	Biological, low	Moderately beneficial
Bluntnose darter	oxbows, swamps, sloughs, borrow pits	North America range: temperate waters, eastern half of United States			
Etheostoma gracile Slough darter	Small rivers, creeks, oxbows, swamps, sloughs,	Southern and eastern third of state	Uncommon	Biological, low	Moderately beneficial
	borrow pits	North America range: temperate waters, eastern half of United States			
Etheostoma parvipinne	Q)	Eastern Texas	Uncommon	Biological, lo₩	Moderately adverse
Goldstripe darter	headwater crecks	North America range: temperate waters, eastern half of United States			
Etheostoma proeliare	Small rivers, creeks,	Eastern Texas	Uncommon	Biological, low	Slightly adverse
Cypress darter	oxbows, swamps, sloughs,borrow pits	North America range: temperate waters, eastern half of United States			
Etheostoma spectabile	Streams, rivers, creeks	Central Texas	Uncommon	Biological, low	None
Orangethroat darter		North America range: reported from Colorado and Texas			
Percina caprodes Logperch	Large and small rivers, and large creeks	Coastal prairie and central Texas	Rare	Aesthetic, biological, low	Slightly adverse
		North America range: Alberta to Quebec, south to east Texas, west of Appalachians			
Percina sciera Dusky darter	Large and small rivers, larie creeks	Eastern half of State	Uncommon	Biological, low	Slightly adverse
		North America range: temperate waters of eastern United States			

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	1	Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
FAMILY SPARIDAE (porgies)					
Lagodon rhomboides	Bays and vegetated areas	Coastal	Common	"Nuisance" scrap fish	None
nstant	in warm weather, migrates to deep water in cold months	North America range: south Atlantic and Gulf coast			
FAMILY SCIAENIDAE (drums)					
Aplodinotus grunniens Freshwater drum	Large rivers, lakes, oxbows, sloughs,	Statewide except western plains	Соптоп	Sport and food, high biological, moderate	Very beneficial
	borrow pits	North America range: Texas to Alabama, north to southern Manitoba and north- ern New York			
Cynoscion arenarius		Coastal	Abundant	Sport, moderate	None
Sand seatrout	in cold weather	North America range: southeastern Atlantic and Gulf coast		Diological, moderate	
Cynoscion nebulosus Spotted seatrout	Bays, beaches, frequents vegetated	Coastal	Uncommon	Sport and food, high	None
	areas	North America range: southeastern Atlantic and Gulf coast		biological, nign	
Leiostomus xanthurus	Bays, estuarine,	Coastal	Abundant	Scrap and sport fish,	None
Spot	marine waters	North America range: Gulf of Maine to Texas coast		moderate	
Micropogon undulatus	Shallow bays, beaches	Coastal	Abundant	Scrap and sport fish,	None
Atlantic croaker		North America range: Massachusetts coast to Gulf		nign; biological, nign	
Pogonias cromis	Shallow bays	Coastal	Common	Sport, high	None
סומכא ערעווו		North America range: coastal from Long Island to Mexico		Diological, nign	

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	Unbited and for	Range in Texas	Operation		Project
Species	Seasonal Status	North America	in Region	Values	Impact
Sciaenops ocellata	Bays, channels, passes	Coastal	Contron	Sport, high	None
Red drum		North America range: coastal waters from New York to Mexico		biological, mign	
FAMILY CICHLIDAE (cichlids)					
Tilapia mossambica Mozambique mouthbrooder	Freshwater	Exotic introduced species	Unknown	Aesthetic	Unknown
		North America range: unknown			
FAMILY NUGILIDAE (mullets)					
Agonostomus monticola Mountain muilet	Bays, estuaries, river mouths	Coastal marine invader	Uncommon	Food, moderate biological, high	None
		North America range: Atlantic and Gulf coast			
Mugil cephalus Striped mullet	Schools, frequents bays, harbors, river mouths	Eastern half of state, coastal marine invader	Abundant	Food, low biological, high	None
		North America range: New York Atlantic coast to Gulf of Mexico, Pacific coast			
Mugil curema White mullet	Schools, frequents bays, harbors, river mouths	Coastal marine invader	Uncommon	Food,low biological, high	None
		North America range: Cape Cod to Gulf of Mexico			
FAMILY ELEOTRIDAE (sleepers)					
Dormitator maculatus	Marine, frequently	Coastal estuarine	Rare	None	None
Fat sleeper	occurring in estuarine and fresh water	North America range: from South Carolina south to Gulf			
Electris pisonis	Freshwater, estuarine	Coastal estuarine	Rare	None	None
Spinycheek sleeper	waters	North America range: Florida to Texas coast			

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	Habitat and/or	Re o in 3x and North America	Abundance in Region	Values	Projec: Impact
Species	Seasonal Status				:
FAMILY GOBIIDAE (gobies) C.bionellus boleosoma	Shallow waters, usually among debris	Coastal estuarine Morth America range: Florida to Texas	Rare	None	None
Gotionellus shufeldti Freshwater goby	Fresh and brackish waters	coast Coastal estuarine North America range: Gilf coast	Uncommon	None	None
Gobiosoma <u>bosci</u> Naked goby	Frequent vegetated estuarine areas	Coastal estuarine North America range: Cape Cod to Gulf	Сонтоп	Biological, low	Rone
FAMILY BOTHIDAE (lefteye flounders) Citharichthys spilopterus	Bays, estuarine, occurring in fresh water	Coastal marine invader	Uncommon	None	None
Paralichthys <u>lethostigma</u> Southern flounder	Bays, estuarine, occurring in fresh water	North America range: New Jersey coast to Gulf of Mexico Coastal marine invader Morth America range: Cape Hatteras to Gulf of Mexico	Соптоп	Sport and food, high biological, moderate	None
FAMILY SOLEIDAE (soles) Achirus lineatus Lined sole	Bays, estuaries, river mouths	Coastal marine invader North America range: West Indies to Gulf	Uncommon	None	None
Trinectes maculatus Hogchoker	Marine, frequently occurring in estuarine and fresh water	Coastal estuarine North America range: Cape Ann to Gulf coast	Соптол	None	Non
FAMILY CYNOGLOSSIDAE (tonguefishes) Symphurus <u>plagiusa</u> Blackcheek tonguefish	Estuaries, bays	Coastal estuarine North America range: south Atlantic and Gulf coast	Abundant	None (scrap fish)	None

SQURCE: Bailey, Fitch, Herald, Lachner, Lindsey, Robins, and Scott (1970); and McCune, Kemp, McGowan (1971)

AMPHIBIANS IN TRINITY RIVER DRAINAGE

Chartas	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Pegion	Values	Project Impact
Stren intermedia Lesser siren	Water: bodies of shallow water, ditches, ponds	Eastern third, southern North America range: southeastern United States	Common	Aesthetic	Moderately adverse
FAMILY AMBYSTONIDAE (mole salamanders) Ambystoma texanum Small-mouthed salamander	Under logs, boards, etc. near ponds or swamps, in river bottoms	Eastern third North America range: south-central United States	Abundant	Aesthetic	Moderately adverse
Ambystoma opacum Warbled salamander	Moist sandy areas, under logs, debris	Eastern fourth North America range: southeastern United States	Common	Aesthetic	Moderately adverse
Ambystoma tigrinum Tiger salamander	Burrowing, breeds in shallow bodies of water	Statewide North America range: most of United States except northeastern and western coast	Uncommon	Aesthetic	Slightly adverse
FANILY SALAMANDRIDAE (newts) Notophthalmus <u>viridescens</u> Central newt	Mater: swales and swampland, wooded ponds, ditches	Eastern third North America range: eastern third United States	Соптол	Aesthetic	Slightly adverse
FAMILY AMPHIUMIDAE (amphiumas) Amphium <u>a means tridactylum</u> Three-toed amphiuma	Water: ditches, sloughs, pools, ponds, rice fields, swamps, streams	Eastern fourth North America range: southeastern coastal plain	Соптол	Aesthetic	Slightly beneficial
FAMILY PLETHOCONTIDAE (lungless salamanders) Desmognathus fuscus auriculatus Dusky salamander	rs) Near cypress ponds, stagnant or nearly stagnant ponds, streams	Eastern fourth Worth America range: Southeastern coastal plain	Common	Aesthetic	Slightly beneficial

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	Habitat and/or Spacnal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Species Plethodon glutinosus Slimy salamander	Moist wooded ravines or	Isolated patches: northeast, southeast, central	Соптол	Aesthetic	None
		North America range: southeastern and eastern United States			
Manculus quadridiqitatus	Under debris, low	Eastern fourth	Common	Aesthetic	None
Owarf salamander	swampy areas	North America range: coastal southeastern United States			
FAMILY PELOBATIDAE (spadetoot toads)				•	
Scaphionus holbrooki	Wooded and savanna areas	Eastern half	Abundant	Aesthetic	None
Eastern spadefoot		North America range: eastern Texas and Oklahoma, western Arkansas and Louisiana			
Scaphiopus couchi Couch's soadefoot	Arid and semiarid country, shortgrass plains and	Western two-thirds except Panhandle	Abundant	Aesthetic	None
	mesquite savannas	Morth America range: western Texas, southern New Mexico and Arizona			
FAMILY BUFONIDAE (toads)					;
Bufo houstonensis Houston toad	Sandy and moist areas	Southeastern North America range: southeastern Texas	Endangered (Federal, Texas)	Aesthetic, scientific, None insectivorous	, None
Bufo woodhousei	Marshes, river bottoms,	Statewide	Abundant	Aesthetic, Sligh	Slightly adverse
Rocky mountain toad	irrigated areas, cities, towns	North America range: United States except for north and west		500.000.000.000.000.000.000.000.000.000	
Bufo valliceps Gulf coast toad	Oitches, coastal prairies, barrier beaches, cities, dumps	• -	Abundant	Aesthetic, insectivorous	None
		Louisiana			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Bufo speciosus Texas toad	1 TO 40	Western three-fourths North America range: western Texas and Oklahoma	Сопяпол	Aesthetic, insectivorous	None
Sufo punctatus Red-spotted toad	Rocky regions, open grassland, near springs and creeks	Western two-thirds except south North America range: southwestern United States	Сонтоп	Aesthetic, insectivorous	None
Bufo debilis Green toad	Arid regions, often beneath rocks	Western three-fourths North America range: western Texas, Kansas, Oklahoma, eastern New Mexico	Continon	Aesthetic, insectivorous	None
FAMILY HYLIDAE (treefrogs and their allies)					
Acris crepitans blanchardi Blanchard's cricket frog	Near permanent bodies of shallow water: streams, ponds, lakes, marshes	Statewide North America range: eastern half United St.tes except New Encland and far north	Abundant	Aesthetic, food source for many aquatic organisms	Slightly beneficial
Hyla crucifer Spring peeper	Woodlands, bushy second growth of cutover woods, near semipermanent ponds, swamps	Eastern fourth North America range: eastern half United States	Abundant	Aesthetic	Slightly adverse
Hyla cinerea Green treefrog	Swamps, borders of lakes and streams, ponds	Eastern third, southern tip North America range: southern coastal plain	Abundant	Aesthetic	Slightly adverse
Hyla <u>squirella</u> Squirrel treefrog	Moist weed and brush tangles, woods, trees, gardens	Coastal plain North America range: southern coastal plain	Abundant	Aesthetic	None
Hyla versicolor Gray treefrog	Arboreal: in small bushes and trees near water	Eastern third North America range: eastern half United States	Abundant	Aesthetic, scientific	c Moderately adverse

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		Oreco in Toxas			
	Habitat and/or	and in sever	Abundance	•	Project
Species		North Americ:	in Region	Values	Impace
Pseudacris triseriata fericrum	Grassy swales, moist	Eastern third	Abundant	Aesthetic	Moderately adverse
Upland chorus frog	wcodlands, rlver-bottom swamps, ponds, bogs, marshes	North America range: eastern, north-central United States			
Pseudacris clarki Spotted chorus freq	Grassland prairies	Southern, central, north-central	Common	Aesthetic	Sliqhtly adverse
		North America range: southern Texas to south-central Kansas			
Pseudacris streckeri Strecker's chorus frog	Moist, shaded woods; rocky ravines; streams;	Eastern third except southeastern corner	Соптол	Aesthetic	Slightly adverse
	sandy prairies	North America range: eastern Texas, Oklahoma, and western Arkansas			
FAMILY MICROHYLIDAE (narrow-mouthed toads)					
Gastrophry"e carolinensis	Border	Eastern third	Common	Aesthetic	Moderately adverse
Eastern narrow-mouthed toad	small streams, under logs, trash. etc.	North America range: southeastern coastal plain			
Gastrophryne olivacea Great Plains narrow-mouthed toad		Statewide except for east and Panhandle	Common	Aesthetic	None
	slopes, beneath rocks, boards, etc.	North Americ. range: souther: and eastern Oklahoma, Kansas			
FAMILY RANIDAE (true frogs)					
Rana catesbefana	Water: lakes, ponds,	Statewide	Abundant	Economic,	Moderately beneficial
Bullfrog	bogs, streams, cattle tanks	North America range: eastern half United States, introduced in many localities in western United States		300000000000000000000000000000000000000	
Rapa clamitans	Swamps, bayheads, wet	Eastern fourth	Common	Aesthetic,	Slightly adverse
Bronze frog	hammocks, streams	North America range: eastern United States		Insectivorous	
Rana pipiens	All types shallow	Statewide	Abundant	Aesthetic, economic,	omic,
Leopard frog	fresh-water habitats, brackish marshes	North America range: most of United States		500000000000000000000000000000000000000	Stignery Deneticial

	Habitat and/or	Kange in Texas and	Abundance		Project
Species	Seasonal Status	North America	in Region	Values	Impact
Rana palustris	Sphagnum bogs, rocky	Southeastern	Соптол	Aesthetic,	None
Pickerel trog	ravines, meadow streams	North America range:		insectivorous	
		eastern half except			
		southeastern coastal plain			
Rana areolata areolata	Crawfish holes,	Southeastern	Соптоп	Aesthetic,	Slightly advance
Southern crawfish frog	mammal burrows, holes	North America range:		insectivorous	
	in banks near water	southeastern coastal			
		plain, Indiana to			
		northeastern Oklahoma			
		and Mississippi			

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SOURCE: Conant (1958), Raun and Gehlback (1972), and Thomas (1974)

REPTILES IN TRINITY RIVER DRAINAGE

Species	Habitat and/or Seasonal Status	Range in Texas and Horth America	Abundance in Region	Values	Project Impact
FAMILY CROCODYLIDAE (crocodilians) Subfamily Alligatorinae (alligator and caiman)	iman)				
Alligator mississipiensis American alligator	Great river swamps, lakes, bayous, marshes	Eastern third North America range: southeastern coastal plain	Uncomnon	Scientific, aesthetic economic	itic Slightly beneficial
FAMILY CHELYDRIDAE (turtles) Subfamily Chelycrinae (snapping turtles)					
Chelydra <u>serpentina</u> Snapping turtle	water: permanent bodíes of fresh water, largs and small	Statewide except for far south and west North America range: central and eastern	Common	High economic, aesthetic	Sliohtly beneficial
Macroclemys termincki Alligator snapping turtle	Water: large permanent bodies of water, lakes, rivers	Eastern third North America range: south-central United States	Uncommon	High economic, preys on ducklings	Moderately beneficial s
Subfamily Kinosterninae (musk and mud turtles)	1198)				
Sternothaerus odoratus	Water: wide variety	Eastern half, central	Abundant	Aesthetíc	Moderatoly beneficial
20110,500.5	dkes, ponds, rivers	North America range: most of eastern half United States			
Sternothaerus carinatus Razor-backed musk turile	Water: streams and rivers, especially	Eastern third, north-central	Abundant	Aesthetic	Moderately beneficial
	larger rivers	North America range: east Texas and Oklahoma, south Arkansas, west Mississippi,			
Kinos ternon flayescens		Western three-fourths	Abundant	Aesthetic	Moderately beneficial
Yellow mud turtle	usually with muddy bottom	North America range: west Texas, Kansas, Oklahoma, west Colorado and New Mexico			
Kinos ternor subrubrum hippocrepis Mississippi mud turile	Water: bayous, lagoons, great swamps	Castern third North America range: southeastern coastal plain	Abundant	Aesthetic	Moderately beneficial

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
FAMILY TESTUDINIDAE Subfamily Emydinae (box and water turtles)	i _				
Terrapene carolina carolina	Woodlands, thickets	Eastern third	Common	Aesthetic	Moderately adverse
Eastern boy turtle		North America range: most of eastern half United States			
Terrapene ornata	Plains and prairies,	Statewide	Cormon	Aesthetic	Slightly adverse
Western box turtie	often in sandy areas	North America range: south-central United States			
Malaclemys terrapin	Water: salt or brackish	Coast	Uncommon	Economic, aesthetic	
Diamondback terrapin	marshes	North America range: coast from Massachusetts to Texas			None
Graptemys kohni	Water: lakes and rivers	Eastern third	Uncommon	Aesthetic	Slightly adverse
Mississippi map turtle		North America range: east-central United States			
Graptemys pseudogeographica	Water: lakes and rivers	Castern third	Uncommon	Aesthetic	Slightly beneficial
raise map turtie		North America range: gast-central United States			
Chrysemys scripta Red-eared STider	Water: almost all bodies of water	Statewide except far west	Abundant	Aesthetic	Mnderately beneficial
		North America range: southeastern United States			
Chrysemys concinna River cooter	Water: rivers, lakes, larger ponds	Statewide except far west and Panhandle	Cormon	Economic, aesthetic Sli	sthetic Slichtly beneficial
		North America range: southeastern coastal plain			
Chrysemys floridana	Water: rivers, lakes,	Eastern fourth	Conmen	Conomic, aesthetic	sthetic
, , , , , , , , , , , , , , , , , , ,	org ponds, and ratshes	North America range: southeastern coastal plain			Stagetly beneficial
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		range in lexas	Abundance		Project
Species	Seasonal Status	North America	ın Kegion	Values	Timpact
Defrochelys reticularia	Water: still water,	Eastern third	Common	Aesthetic	Moderately heneficial
Chicken turtie	ponos, marsnes, siougns, ditches	North America range: southeastern coastal plain			
FAMILY TRIONYCHIDAE (softshell turtles)					
Trionyx muticus Smooth softshell	Water: rivers, streams, less often lakes	Eastern half, east Panhandle	Common	Economic, aesthetic	etic Slightly adverse
		North America range: south-central United States			
Trionyx spinifer.s		Statewide	Common	Economic, aesthetic	etic
Spiny softsneli	streams, ponds	North Tamica range: central and eastern United States			Slightly adverse
FAMILY IGUANIDAE (iguanids)					
Anolis carolinensis	woods, thickets,	Eastern half	Abundant	Aesthetic	Moderately adverse
Green anole	gardens	North America range: southeastern coastal plain			
Crotaphytus collaris Eastern collared lizard	Hilly, rocky, arid or semiarid countiy, rocky	Western two-thirds except southern tip	Common	Aesthetic	None
	canyons	North America range: south-central and southwestern United States			
Cophosaurus texanus	Rocky streams, sandstone	Western two-thirds	Common	Aesthetic	None
Greater earless Ilzard	and ilmestone outcrops, rock desert flats	North America range: central Texas, southwestern United States			
Holbrockia maculata	Open sandy area, sand	Central, north, west	Common	Aesthetic	None
Lesser earless lizard	prairies, dry sand bars, cactus-mesquite country	North America range: south-central United States	,9		
Sceloporus <u>olivaceus</u> Texas spiny lizard	Trees: mesquite, cedar, cottonwood; abandoned	Eastern two-thirds except Panhandle	Солтол	Aesthetic, insectivorous	Slightly adverse
	nouses, bridges, cactus patches	No-th America range: east Texas			

	I ™.	Range in Texas and	Abundance		Project
Species	Seasonal Status	North America	in Region	Values	Impact
<u>Sceloporus undulatus</u> <u>Eastern fence lizard</u>	Woods, thickets, fences, abandoned houses	Statewide North America range: southern United	Abundant	Aesthetic, insectivorous	Moderately adverse
		States			
Phrynosoma cornutum	Dry, flat, open terrain	Statewide	Соптоп	Aesthetic	None
Texas horned lizard	with sparse plant cover	North Amc range: south-central United States			
FAMILY TEIIDAE (whiptails)					
Cnemidophorus sexitneatus	Open, loose soil areas,	Eastern three-fourths	Common	Aesthetic	Moderately adverse
Six-lined racerunner	rleids, open woods, rocky outcrops, river flood-plains	North America range: central and southeast United States			
Cnemidophorus gularis	Open, dry areas without	Western three-fourths	Common	Aesthetic	None
iexas spotted whiptail	dense vegetation	North America range: southwestern United States			
FAMILY SCINCIDAE (skinks)					
Scincella laterale	Woodlands, with ground	Eastern half	Abundant	Aesthetic	Moderately adverse
Ground skink	cover, leaf litter	North America range: southeastern United States			
Eumeces fasciatus	Forest, cutover woodlots	Eastern third	Common	Aesthe⁺i c	Slightly adverse
Five-lined skink	with rotting stumps and logs	North America range: eastern half United States			
Eumeces laticeps	Forest swamps, woodlands,	Eastern third	Common	Aesthetic	Moderately adverse
Broad-headed skink	dead trees	North America range: southeastern United States			
Eumeces anthracinus	Humid wooded hillsides	Northeastern	Uncommon	Aesthetic	None
Coal skink		North America range: isolated localities, northeastern, southern United States			
Eumeces septentrionalis Prairie skink	Open forest, shortgrass prairie	Eastern half except southeast corner	Соритоп	Aesthetic	Sliohtly adverse
		Morth America range: central United States			

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Speries	Habitat and/or Seasonal Status	North America	Abundance in Region	Values	Project Impact
FAMILY ANGUIDAE (glass lizards and alligator lizard	-				
Ophisaurus attenuatus	Dry grasslands; open,	Eastern half	Uncommon	Aesthetic	Slightly beneficial
Slender glass lizard	dry wocdlands	North America range: southeastern coastal plain			
FAMILY LEPTOTYPHLOPIDAE (slender blind snakes)	lakes)				
Leptotyphlops dulcis	Ario and semiarid region,	Western two-thirds	Uncommon	Aesthetic	None
Texas blind snake	stony hillsides, prairies, rocky deserts	North America range: west Texas, southern New Mexico, southeast Arizona			
FAMILY COLUBRIDAE (colubrids)					
Matrix cyclopion	Edges of lakes, ponds,	Coast	Uncommon	Aesthetic	Moderately beneficial
Green water snake	swamps, rice fields, marshes, bayous	North America range: Gulf coastal plain			
Matrix rhombifera	Wide variety of aquatic	Eastern two-thirds	Abundant	Aesthetic	Very beneficial
Diamond-backed water snake	habitats, big lakes and rivers to ditches and cattle tanks	North America range: south-central United States			
Natrix erythrogaster Red-bellfed water snake	River bottoms, swamps, marshes, lakes, ponds,	Statewide except far west	Common	Aesthetic	Slightly beneficial
	streams, ditches, stock tanks	North America range: southeastern coastal plain			
Natrix sipedon confluens		Eastern third	Common	Aesthetic	Slightly beneficial
Broad-banded water snake	bodies of water, salt and brackish marshes	North America range: southeastern coastal plain			
Regina grahami Graham's water snake	Margins of ponds, streams, sloughs, swamps	Eastern third, north- central	Uncommon	Aesthetic	Moderately beneficial
		North America range: south-central United States			
Regina rigida	Wet lowlands, swamps	Eastern fourth	Rare	Aesthetic	Slightly beneficial
Glossy water snake		North America range: Gulf coastal plain			

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	ო	and Amounted	Abundance	2011	Project
Speciles	seasonal Status	NOT CIL AMETICA	in kegion	values	Impact
Storeria dekayı	Bogs, swamps, marshes,	Eastern half	Соптол	Aesthetic	Moderately adverse
Brown snake	moist woods, hillside, cities, dumps, trash piles	North America range: eastern half United States			
Storeria occipitomaculata	Moist woodlands	East	Rare	Aesthetic	Moderately adverse
Red-bellied snake		North America range: eastern half United States			
Thamnophis marcianus	prairie,	Western three-fourths	Common	Aesthetic	None
Checkered garter snake	near streams, stock tanks, springs	North America range: southwestern United States			
Thamnophis sirtalis Common garter snake	Mear water, meadows, marshes, woodlands,	Eastern half, eastern Panhandle	Uncommon	Aesthetic	Slightly adverse
	nilsides, along streams, dumps	North America range: United States except southwest			
Thamnophis sauritus proximus Western ribbon snake	Mear streams and other bodies of water in arid	Statewide except far west	Abundant	Aesthetic	None
	and semiarid country	North America range: eastern and south- central United States			
Tropidoclonion lineatum	Prairies, open woods,	Eastern two-thirds	Common	Aesthetic	None
Lined snake	cities, trash dumps	North America range: south-central United States			
Virginia striatula		Eastern half	Common	Aesthetic	Sliohtly adverse
Rough earth snake	beneath logs, stones, boards, etc.	North America range: southeastern coastal plain			
Virginia valeriae	Near deciduous forest,	East-central	Rare	Aesthetic	Moderately adverse
Western earth snake	beneath logs, leaf iltter	North America range: southeastern United States			
Heterodon platyrhinos	Woodlands, wooded streams,	Eastern two-thirds	Uncommon	Aesthetic	Moderately adverse
tastern hognose snake	sandy areas	Morth America range: eastern half United States			

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Species		Morth America	in Region	Values	Impact
Heterodon nasicus Western hognose snake	Relatively dry, sandy prairies	Statewide except eastern edge	Uncommon	destheti c	None
		North America range: central United States			
Diadophis punctatus Ringneck snake	Woodland; rocky, wooded hillsides; near swamps	Statewide except southern tip	Uncommon	Aesthetic	Slightly adverse
		North America range: eastern half United States			
Farancia abacura reinwardti Western mud snake	Swamps and lowlands	Eastern and southeastern	Uncommon .	Aes:hetic	Sliohtly beneficial
		North America range: southeastern coastal plain			
Coluber constrictor foxi	Fields, grasslands,	Eastern two-thirds	Cormon	Aesthetic	None
blue racer	brushy areas, open woods	North America range: most of United States			
Masticophis flagellum	Wide variety; dry,	Statewide	Abundant	Aesthetic	Slightly adverse
Loachwhip	sandy flats to swamps, creek valleys	North America range: southern half United States			
Opheodrys aestivus	Dense vegetation; woods,	Eastern two-thirds	Uncommon	Aesthetic	Moderately adverse
Yough green snake	thickets, stream and lake borders	North America range: southeastern United States			
Opheodrys vernalis	Moist grassy plains and	Southeast	Rare	Aesthetic	None
Smooth green snake	prairies	North America range: northeastern United States, disjunct through central United States			
<u>Salvadora grahamiae</u> Mountain patch-nosed snake	Prairies, rocky terrain, brush land	Trans-Pecos, north- central, central, south	Uncommon	Aesthetic	None
		North America range: central and west Texas			
Flaphe guttata emcryi	Canyons or rocky	Statewide	Соттоп	Aesthetic, predator	yr None
oreac profits for stake	plains, open woodlands	North America range: southeastern, south- central United States		821900 100	

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Elaphe obsoleta lindheimeri Texas rat snake	Swampy areas, woodlands, stream valleys, rocky canyons	Statewide except staked plains and Panhandle	Common	Aesthetic, predator of rodents	Sijaht
		North America range: eastern half United States			
Pituophis melanoleucus sayi	Plains, prairies, open	Statewide	Common	Aesthetic, predator	tor
Bullsnake	woodland	North America range: United States except northeastern		of ro dents	Slightly adverse
Lampropeltis getulus	Swamps, upland woods,	Statewide	Common	Aesthetic	Moderately adverse
Common kingsnake	stream valleys of plains and prairies	North America range: southern half United States			
Lampropeltis doliata amaura	Woodlands, rocky	Statewide	Rare	Aestheti c	Slightly adverse
Milk snake	nilisides, tarms	North America range: United States except southwest and north- east			
Lampropeltis calligaster calligaster Prairie kingsnake	Grassland prairies, open woodlands, savanna	Eastern half, eastern Panhandle	Common	Aesthetic	None
		North America range: southeastern United States			
Rhinocheilus lecontei tessellatus	Deserts and dry	Western two-thirds	Uncommon	Aesthetic	None
Texas long-nosed snake	prairies	North America range: southwestern United States			
Sonora episcopa episcopa	Open prairie, desert	Western two-thirds	Common	Aesthetic	None
Great plains ground snake		North America range: south-central United States			
Hypsiglena torquata	Arid or semiarid country,	Western two-thirds	Uncommon	Aesthetic	None
Night snake	often rocky terrain	North America range: southwestern United States			
Tantilla gracilis		Eastern two-thirds	Uncommon	Aesthetic	Slightly adverse
riat-neaded snake	under logs, rocks, etc.	North America range: south-central United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Tantilla nigriceps	Arid and semiarid	Western two-thirds	Uncommon	Aesthetic	None
Plains black-headed snake	prairie	North America range: southwestern and south-central United States			
FAMILY ELAPIDAE (coral snakes)					
Micrurus fulvius tenere Texas coral snake	Dense, jungly hardwood, to well-drained pine woods; in leaf litter, under logs	Eastern half Worth America range: southeastern coastal plain	Uncommon	Aesthetic	Moderately adverse
FAMILY VIPERIDAE (vipers) Subfamily Crotalinae (pit vipers)					
Agkistrodon contortrix Copperhead	Rocky, wooded hillsides, lowlands near swamps	Eastern two-thirds, Trans-Pecos	Common	Aesthetic	Moderately adverse
	and streams	North America range: eastern half United States except north- central			
Agkistrodon pisciverus leucostoma	Swamps, bayous, lakes,	Fastern half, central	Abundant	Aesthetic	Slightly beneficial
	rice fields	North America range: southeastern coastal plain			
Si <u>etruvus catenatus</u> Vassasauga	Plains and prairies, usually near swamps or marshes	Statewide except northeastern and southwestern edge	Uncommon	Aesthetic	Sliahtly beneficial
		North America ra ge: south-central and northeastern United States			
Sistrurus millarius streckeri		Eastern third	Uncommon	Aesthetic	Moderately adverse
wastern pigmy rattlesnake	river ;100d-plains, swamps, marshes, wet prairies	North America range: southeastern coastal plain			
Crotalus horridus	Mooded areas in wet	Eastern third	Rare	Aesthetic, predator	redator
.andreak rattiosnike	oottomlands	North America range: eastern half United States		or roaents	Slightly adverse

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	Habitat and/or	kange in rexas and	Abundance		Project
	Seasonal Status	North America	in Region	Values	Impact
l	Desert flats, rocky	Western three-fourths Abundant	Abundant	Aesthetic, predator	None
	cliffs and canyons	North America range: southwestern, central, southern United States		or rodents	

Source: Conant (1958), Raun and Gehlback (1972), and Thomas (1974)

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Species	Habitat and/or Seasonal Status	Kange in lexas and North America	Abundance in Region	Values	Project Impact
FAMILY GAVIIDAE (loons)					
Gavia irmer	Water: open-water lakes	Statewide	Uncommon	Aesthetic	Moderately beneficial
Common Toon	bays, gulf Wintering	North America range: Northern and coastal United States			
Gavia stellata Red-throated loon	Water: open-water, especially offshore Wintering	Statewide as migrant North America range: northern coastal United States	Uncommon (accidental)	Aesthetic	None
FAMILY PODICIPEDIDAE (grebes)			ì		
Podiceps grisegena Red-necked grebe	Water: open-water, lakes, bays, gulf Wintering	Statewide as migrant North America range: United States	Rare	Aesthetic	Slightly beneficial
Podiceps auritus Horned grebe	Water: lakes, bays, open gulf	Statewide North America range:	Uncommon	Aesthetic	Slightly beneficial
	wintering	United States	•		
<u>Podiceps caspicus</u> Eared grebe	Water: ponds, lakes, bays, open gulf, marshes Wintering	Statewide as migrant North America range: western United States	Uncommon	Aesthetic	Slightly beneficial
Podiceps dominicus Least grebe	S	Coastal and southern Texas	Rare	Aesthetic	Slightly beneficial
	Wintering, transient	North America range: coastal and southern Texas			
Aechmophorus occidentalis	Water: open-water	Statewide	Rare	Aesthetic	Slightly beneficial
Western grebe	lakes, bays, gulf Wintering, transient	North America range: western United States			
Podilymbus podiceps	Water: ponds, lakes,	Statewide	Abundant		Moderately beneficial
ried-billed grebe	creeks, marsnes, saltwater Transfent, migratory	North America range: United States			

	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Pegion	Values	Project Impact
FAMILY PUFFIHIDAE (shearwaters)				•	;
Puffinus <u>iherminieri</u> Audubon's shearwater	Water: tropical seas, crasis Transient, migratory	Coastal North America range: southern coastal United States	Rare	Aesthe:ic	None
FAMILY PHAETHONTICAE (tropicbirds) Phaëthon lepturus White-tailed tropicbird	Water: open seas Transient, migratory	Coastal North America .ange: southern coastal United States	Uncommon	Aesthetic	None
FAMILY PELECAHIDAS (pelicans) Pelecanus erythi, nchos White pelican	Water: lakes, salty bays, beaches Wintering, summering (non breeding)	Statewide North America range: western United States	Abundant	Aesthetic	None
Pelecanus occidentalis Brown pelican	Water: salty bays, open gulf Winter, surwer, fall	Coastal North America range: southern coastal United States	Endangered (federal, Texas)	Aesthetic scientific	None
FAMILY SULIDAE (boobies and gannets) Sula dactylatra Blue-faced booby	Water: open seas Accidental	Coastal North America range: southern coastal United States	Uncommon	Aesthetic	None
Morus bassanus Gannet	Water: coastal seas Migratory, fall	Coastal North America range: Atlantic and Gulf coastal United States	Uncommon	Aesthetic	None
FAMILY PHALACROCORACIDAE (cormorants) Phalacrocorax auritus Double-crested cormorant	Water: lakes, rivers, gulfs Wintering	Statewide as migrant North America range: United States	Abundant	Aesthetic	Moderately beneficial

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Species	Pabitat and/or Seasonal Status	Pange in Texas and North America	Abundance in Region	Values	Project Impact
Phalacrocorax olivaceus Olivaceous cormorant	Mater: lakes, rivers, gulfs Resident	Gulf coast North America range: Gulf coast	Cormon	Predacious and scavenger	Moderatelv beneficial
FAMILY ANHINGIDAE (darters)					
Anhinga <u>anhinga</u> Anhinga, water-turkey	Nater: fresh water swamps, lakes, rivers Nesting	Coastal, eastern Texas along major rivers	Conmon	Aesthetic	Moderately beneficial
		North America range: southern United States			
FAMILY FREGATIDAE (frigatebirds)					
Fregata magnificens Vagnificent frigatebird	Water: coastal seas	Coastal as migrant North America range: southern coastal United States	Rare	Aesthetic	None
FAMILY ARDEIDAE (herons, egrets					
Ardea <u>occidentalis</u> Great white heron	Mater: banks of salt- water bays Accidental	Coastal as migrant North America range: Key West, Gulf coast	Rare	lligh aesthetic	None
Ardea herodias Great blue heron	Water: rivers, marshes, ricefields, swamps, shores Permanent	Statewide North America range: United States	Abundant	Predacious	Moderately beneficial
Casmerodius albus Common egret	Nater: ponds, shores, marshes, ricefields Resident	Statewide North America range: United States	Abundant	Aesthetic	Moderately beneficial
Leucophoyx thula Snowy egret	Water: marshes, swamps, riceffelds, shores Resident	Statewide North America range: southern half United States, coast to Long Island	Abundant	Aesthetic	Slightly beneficial
Dichromanassa <u>rufescens</u> Roddish egret	Water: shores, lagoons, salt marshes Resident	Coastal resident, migrant to North Texas Yorth America range: Gulf coast, Texas to	Rare	Aesthetic	Slightly beneficial

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Species	Habitat and/or Seasonal Status	Parge in Texas and North America	Abundance in Region	Values	Project Impact
Hydranassa tricolor Louisiana heron	Water: marshes, swamps, ricefields, lagoons, shores	Coastal resident, migrant to northern and central Texas	Abundant	Aesthetic	Slightly beneficial
	Resident	North America range: Atlantic coastal United States			
Florida caerulea Little blue heron	Water: marshes, swamps, ricefields, mudflats,	Eastern Texas, statewide as migrant	Abundant	Aesthetic	Moderately beneficial
	snores Winterina, breeding	North America range: eastern United States			
Butorides virescens Green heron	Streams, ponds, swamps, marshes	Statewide as migrant	Common	Aesthetic	Slightly beneficial
	71901694	North America range: United States			
Bubulcus ibis Cattle egret	Pastures, fields, marshes Resident	Statewide as migrant, eastern Texas	Abundant	Insectivorous	Moderately beneficial
		North America range: United States			
Mycticorax nycticorax	Water: fresh and	Statewide	Abundant	Aesthetic	Moderately beneficial
Black-crowned night heron	Dracklsh swamps, marshes, lakes Resident	North America range: United States			
Nyctanassa violacea Vellow-crowned night heron	Water: swamp, marshes shores Resident	Eastern Texis, statewide as migrant	Abundant	Aesthetic	Moderately adverse
		North America range: eastern United States			
Botaurus lentiginosus	Water: fresh, brackish,	Statewide	Abundant	Aesthetic	Moderately beneficial
American Dittern	sait marsnes, swamps, bogs, Wintering, resident	North America range: United States			
Ixobrychus exilis	Water: fresh, brackish,	Statewide	Abundant	Aesthetic	Moderately beneficial
רנפסי סיינפים	Sailt mai siidst shamps Resident	horth America range: eastern United States			

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	Habitat and/or		Aburdance in Region	Values	Impact
Species crownings (storks, wood ibises)	1				
FAMILI CICOMITAN (SCORE)	Water: swamps, marshes,	Eastern Texas	Rare	Aesthetic	Slightly beneficial
Nycteria anericana Wood 161s		North America range: coastal southeastern United States			
FAMILY THRESKIORNITHIDAE (1618es)		1	4 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Assthatic	Moderately beneficial
Plegadis chihi White-faced ibis	Water: freshwaten narshes and sloughs, ricefields	Coastal lexas, statewide as migrant	Abundani		
	Resident	North America range: western United States			
Eudocimus albus	Water: marshes, swamps,	Coastal, eastern Texas as migrant	Abundant	Aesthetic	Moderately beneficial
White ibis	Resident	North America range: coastal, south- eastern United States			
FAMILY PLATALEIGAE (spoonbills)	•	national contractions	Conmon	High aesthetic	Slightly beneficial
<u>Ajata ajaja</u> Roseate spoonbill	Water: marshes, lagoons, mudflats Resident	Coastal, eastern Texas, migrant North America range: Gulf coast			
FAMILY AMATIDAE (swans, geese, ducks)		(F) (F) (F) (F) (F) (F) (F) (F) (F) (F)	Rare	High aesthetic	Slightly beneficial
Olor colum <u>bianus</u> Whistling swan	Water: lakes, bays Migrating	Statewise North America range: United States			
	Water: lakes, bays,	ctatewide	Abundant	High sport, aesthetic	Moderately beneficial
Canada goose	marshes, prairies Wintering, migrating	North America range: United States			
Branta hornicla	Water: lakes, bays,	Coastal regions	Rare	Sport, aesthetic	Slightly beneficial
Brant	ocean shores Accidental visitor	North America range: coastal United States			

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			Abundance		Project
	Habitat and/or Seasonal Status	erica	in Region	Values	Impact
Species					
Ans <u>er albifrons</u> Whit <u>e-fronted g</u> oose	Water: marshes, prairies, fields, lakes, bays Wintering	Coastal regions, statewide as migrant	Abundant	High sport, aesthetic	Moderately beneiltidi
		North America range: United States			;
Chen hyperborea	Water: marshes, prairies, ponds, bays	Statewide as migrant	Abundant	High sport, aesthetic	Moderately beneficial
3000 FOR	Wintering, migrating	North America range: United States			
<u>Chen caerulescens</u> Blue goose	Water: marshes, prairies, ponds, bays Wintering, migratin	Coastal regions, eastern Texas as migrant	Common	High sport, aesthetic	Moderately beneficial
		North America range: Gulf coastal United States			
2000	Water: lakes, marshes,	Coastal regions	Uncommon	High sport,	None
Ross' goose	. <u>=</u>	North America range: western United States		ק בר בר בר בר בר בר בר בר בר בר בר בר בר	
Dendrocygna autumnalis	Vater: ponds, marshes, swamps	Coastal and southern Texas	Соптоп	Aesthetic	Moderately beneficial
מוסראים ביי מיי מיי מיי מיי מיי מיי מיי מיי מיי	Resident	North America range: southern Texas and southern Arizona			
Centrocygna bicolor	Water: grassy fresh water marshes, ponds	Coastal and south- ern Texas	Abundant	Sport, aesthetic	Moderately beneficial
	Resident	North America range: southwestern United States			;
Anas platyrhynchos	Water: ponds, bays, marshes, swamps, lakes	Statewide as migrant	Abundant	High sport, aesthetic	Moderately beneficial
	Wintering, migrant	North America range: United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Va:	Project Impact
Anas <u>cubripes</u> Biack duck	Water: lakes, bays, rivers, marshes,	Coastal and eastern Texas	Uncemmon	Sport,thetic	Moderately beneficial
	mudflats Wintering	North America rarge: eastern and central United States			
Anas fulvigula	Water: marshes, mud-	Coastal regions	Aburdant	High sport,	Very beneficial
Mottled duck	flats, ponds, bays, Resident	North America range: southeastern United States		aestnetic	
Ánas strepera	Water: ponds, bays,	Statewide as migrant	Abundant	High sport, aesthetic	itic
Gadya I I	rivers, marsnes Wintering, migrant	North America range: United States			Very beneficial
Mareca penelupe	Water: coastal mudflats,	Coastal Texas	Rare	Sport, aesthetic	Slightly beneficial
European widgeon	estuarres, large lakes Wintering	North America range: coastal United States			
Mareca americana	Later: marshes, ponds,	Statewide as migrant	Abundant	High sport, aesthetic	itic
American widgeon	iakes, Days Wintering, migrant	North America range United States			Very beneficial
Anas acuta	Water: marshes, prairies,	Statewide as migrant	Abundant	High sport, aesthetic	tic
rincali	ponds, lakes,rivers, sait bays Wintering, migrant	North America range: United States			Yery beneficial
Anas carolinensis	Water: marshes, lakes,	Statewide as migrant	Abundant	High sport, aesthetic	itic
areen-winged teal	ponds, livers, bays Wintering, migrant	North America range: western and north- eastern United States			very beneficial
Anas discors	Water: ponds, marshes	S.atewide	Abundant	High sport, aesthetic	tic
סותפ-אוטפס רפסו	winter 1193, 1.35 ting	North America range: United States			Very beneficial
Anas cyanoptera	Water: fresh ponds,	Statewide as migrant	Rare	Sport, aesthetic	Slightly beneficial
כיווומווטו נפסו	liesu matsues Wintering, migrating	North America range: westurn United States			

	1	Range in Texas	A k d. s. s. s.	+000
Species	Seasonal Status	North America	Abundance in Region	Values Impact
<u>Spatula clypeata</u> Shoveler	Water: marshes, ponds, lakes, salt bays Wintering	Statewide as migrant North America range: United States	Abundant	High spcrt, aesthetic Very beneficial
Aix sponsa Wood duck	Water: wooded swamps, wooded streams, ponds Resident	Eastern Texas North America range: United States	Abundant	High sport, aesthetic Moderately beneficial
<u>Aythya americana</u> Redhead	Water: lakes, reservoirs, bays, estuaries Wintering, migrant	Statewide as migrant North America range: United States	Irregularly common	High sport, aesthetic Moderately beneficial
Aythya collaris Ring-necked duck	Water: lakes wooded ponds, marsh ponds, rivers, bays wintering, migrant	Statewide as migrant, coastal wintering North America range: United States	Uncommon	Sport, aesthetic Moderately beneficial
Aythya valisineria Canvashack	Water: lakes, bays, lagoons, estuaries Wintering, migrant	Statewide as migrant, coastal wintering North America range: central and western United States	Abundant	High sport, aesthetic Very beneficial
Aythya <u>marila</u> Greater scaup	Water: open water, lakes, bays Wintering, migrant	Statewide as migrant, coastal wintering North America range: western and Gulf coastal United States	Uncommon	Sport, aesthetic Moderately beneficial
<u>Aythya affinis</u> Lesser scaup	Water: open water, ponds, lakes, rivers, bays Wintering, migrant	Statewide as migrant, coastal wintering North America range:	Abundant	High sport, aesthetic Very beneficial
Bucephala <u>clangula</u> Common noldeneye	Water: lakes, rivers, bays, gulf Wintering	Statewide North America range: United States	Rare	Sport, aesthetic Slightly beneficial
<u>Bucephala albeola</u> Bufflehead	Water: lakes, ponds, rivers, bays Wintering	Statewide North America range: western United States	Uncommon	Sport, high aesthetic Slichtly beneficial

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Species	Habitat and/or Searonal Status	Pange in Texas and North America	Abundance in Region	Values	Project Impact
Clangula hyemalis Oldsquaw	Water: open water Accidental wintering	North and coastal Texas	Rare	Low sports, high aesthetic	Slightly beneficial
		North America range: coastal and Great Lakes, United States			
Nelanitta deglandi	Water: large lakes,	Coastal Texas	Rare	Sport, aesthetic	Slightly beneficial
White-Winged scoter	guit Wintering	North America range: coastal United States			
Melanitta perspicillata	Water: gulf	Chiefly coastal	Uncommon	Sport, aesthetic	None
Surr scoter	Uccasional Wintering	North America range: coastal United States			
Oidemia Americana	Water: gulf, bays	Chiefly coastal	Uncommon	Sport, aesthetic	None
Allerican scoter	Uccasional Wintering	North America range: coastal United States			
Oxyura jamaicensis Ruddy duck	Water: ponds, rivers, lakes, bays	Statewide as migrant, coastal wintering	Uncommon	Sport, high aesthe	Sport, high aesthetic Moderately beneficial
	Winter, migrant	North America range: United States			
Oxyura dominica Masked duck	Water: resacas, ponds Accidental visitor	Southern and coastal Texas	Rare	Sport, aesthetic	Slightly beneficial
		North America range: southern Texas			
Lophodytes cucullatus Hooded merganser	Water: lakes, ponds, bays Wintering, migrating	Coastal, migrant in northern and eastern Texas	Uncommon	Sport, aesthetic	Moderately beneficial
		North America range: United States			
Mergus merganser	Water: rivers, lakes,	Statewide as migrant	Uncommon	Sport, aesthetic	Moderately beneficial
College I mer ganser	udys Wintering, migrant	North America range: United States			

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Mergus serrator Red-breasted merganser	Water: lakes, bays, gulf Wintering, migrant	Migrant northern and eastern Texas, coastal wintering	Ссптоп	Sport, aesthetic	Very beneficial
		North America range: Great Lakes, coastal United States			
FAMILY CATHARTIDAE (American vultures)					
Cathartes aura	Ubiquitous	Statewide	Abundant	Aesthetic, carrion	None
lurkey vulture	wintering, oreeding	North America range: United States		removal	
Coragyps atratus	Ubiquitous	Statewide	Соптоп	Aesthetic, carrion	None
Black vulture	Resident	North America range: southern and south- eastern United States		remova <i>l</i>	
FAMILY ACCIPITRIDAE (kites, hawks, eagles)					
Elanus leucurus	Coastal prairie: open	Southern Texas	Rare	High aesthetic	None
White-talled Kite	country Resident	North America range: southern Texas, southern California			
Elanoides forficatus	River, swamps	Coastal as migrant	Rare	High aesthetic	None
Swallow-talled Kite	occasional migrant	North America range: southeastern United States			
<u>Ictinia misisippiensis</u>	Scrub-oak country,	Statewide as migrant	Uncommon	High aesthetic	Moderately beneficial
Mississippi Kite	wooded creeks, range- land Migrant	North America range: southeastern United States			
Accipiter gentilis Goshawk	Woodlands Migrant	Northern Texas as rare migrant	Very rare	High aesthetic	None
		North America range: northern, north- eastern and western Sierras of United States			

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Species	Habitat and/or Seasonal Status	Pange in Texas and North America	Abundance	Values	Project
A					2000mg
Sharn-shinged howk	woodlands, thickets,	Statewide as migrant	Conmon	High aesthetic	Silontiy adverse
	Migrant	North America range: United States			
Accipiter cooperii	Woodlands, brush,	Statewide	Common	High aesthetic	Slightly adverse
Cooper's nawk	occasionally open country Breeding, migrant	North America range: United States			
Buteo jamaicensis	Open country, brush,	Statewide	Abundant	High aesthetic,	None
עפת-נסו זפת וומאני	Woodlands, mountains Wintering	North America range: United States		predator of redents	v.
Buteo harlani Harlan's hawk	Open country, brush, woodlands, mountains	Eastern and central Texas, migrant	Rare	High aesthetic, predator of rodents	None :s
	ธิมเลาแพ	North America range: central United States			
Buteo lineatus Red-shouldered hawk	Woodlands, wooded rivers, timbered swamps	Eastern, central, southern Texas	Ссптоп	High aesthetic	Slightly adverse
	7 DE CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL	North America range: western, central, scutheastern United States			
Buteo lagopus	Prairies, marshes	Statewide as migrant	Rare	High aesthetic	None
kougar-legged nawk	wintering	North America range: United States			
Buteo regalis	Plains, rangeland	Western two-thirds	Rare	High aesthetic	None
ומאני מחווסתס וומאני	אמות כן מוויס	North America range: western and south- western United States			
Craxirex platypterus	Woodlands, groves	Eastern half Texas	Rare	High aesthetic	None
	2 10 25 1.	North America range: eastern half United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Buteo swainsoni	Prairies, rangeland,	Statewide as migrant	Rare	High aesthetic	None
Swainson's hawk	brush Migrant	North America range: western United States			
Buteo albicaudatus		Coastal Texas	Uncommon	High aesthetic	None
White-tailed hawk	grassy mesquite, live oak savannah Resident	North America range: coastal Texas			
Parabutec unicinctus Harris' hawk	Mesquite brushland of southwest	Southern and south- western Texas	Uncommon	High aesthetic	None
	Resident	North America range: southwestern United States			
Aquila chryaetos Golden eagle	High rangeland, mountains	Western two-thirds and coastal Texas	Rare	High aesthetic	None
	Occasional visitor	North America range: Appalachians and western United States			
Haliaeetus leucocephalus Bald eagle	Shores of rivers, lakes, coasts	Eastern,central, coastal Texas	Endangered (federal,	High aesthetic	Slightly beneficial
	Resident, breeding	North America range: central and Gulf coastal United States	Texas)		
Circus cyaneus	Marshes, fields, prairies	Statewide	Abundant	High aesthetic	Slightly beneficial
Marsh hawk	Wintering	North America range: United States			
FAMILY PANDIONIDAE (osprey)					
Pandion haliaetus	Water: rivers, lakes,	Statewide as migrant	Uncommon	High aesthetic	Slightly beneficial
Usprey, fish, nawk	guli Migrating, rarely wintering	North America range: United States	(status undetermined)		
FAMILY FALCONIDAE (falcons)					:
Caracara <u>cheriway</u> Caracara	Prairies, rangeland Resident	Coastal and southern Texas	Rare (status undetermined)	Aesthetic	None
		North America range: southwestern United States, scuthern Florida	da		

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Species	Fabitat and/or Seasonal Status	Pange in Texas and North America	Abundance in Pegion	Values	Preject Impact
Falco mexicanus Prairie falcon	Canyons, dry plains, prairies Resident, visitor	Western Texas, occasional coastal, northern Texas	Rare	High aesthetic, scientific	None
		North America range: western United States			
Falco peregrinus	Open country, gulf	Statewide as migrant	Endangered	High aesthetic,	None
יפרפקר זופ זמוכסוו	snores Vinterina, migrant	North America range: United States	('ederal, Texas)	scientific	
Falco columbarius	Open country, marshes,	Statewide	Uncommon	Aesthetic	None
rigeon navk	prairies, dunes, Migrating	North America range: United States			
Falce sparverius	Open country, farmland	Statewide	Abundant	ູ້	Moderately beneficial
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FAMILY TETRAONIDAE (grouse)					
<u>Tympanuchus cupido</u> Greater prairie chicken	Tall-grass prairie, coastal prairie	Southeastern and coastal Texas	Rare, endangered	High aesthetic, scientific	None
	ves i den t	North America range: central United States, coastal Texas	('ederal, Texas)		
FAMILY OGONTGPHORIDAE (American quails)					
Colinus virginianus Bobwhite	Farmland, brushy open country, road-	Statewide except Trans-Pecos	Abundant	High sport, aesthetic	Slightly adverse
	sident Resident	North America range: central and eastern United States			
IAMILY GRUIDAE (cranes)					
Grus canadens is	Prairie, fields, marshes,	Statewide as migrant	Abundant	High sport, aesthetic	c None
Sandhiil Crane	Snailow bays Wintering migrant	North America range: United States			
FAMILY MELEAGRIDIDAE (Turkeys)					
<u>Meleagris gallopavo</u> Wild turkey	Woodlands, thickets, etc.	Edwards Plateau and Coastal Prairie North American range: Oklahoma, Pennsylvania, Gulf States, Mexico	Uncomion	High scort, aesthetic	Sliahtly adverse

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		Range in Texas			
	Habitat and/or	and	Abundance		Project
Species	Seasonal Status	North America	in Pegion	Values	Impact
FAMILY RALLIDAE (rails)					
Rallus elegans King rail	Water: fresh and brackish marshes,	Eastern, central, coastal	Abundant	High sport, aesthe	High sport, aesthetic Moderately beneficial
	swamps, ricefields Wintering	North America range: eastern United States			
Rallus longirostris	Water: salt marshes	Coastal Texas	Abundant	High sport, aesthetic	tic None
Clapper rail	עפס ותפון ר	North America range: coastal United States			
Rallus limicola	Fresh and salt marshes	Statewide as migrant	Uncommon	High sport, aesthetic	itic
Virgin: J rail	Migrant, Wintering	North America range: United States			Siightly beneficial
Porzana carolina	Fresh and salt marshes,	Statewide as migrant	Uncommon	High sport, aesthetic	itíc
B 100	swamps Migrant, wintering	North America range: United States			Singhtly beneficial
Coturnicops noveboracensis	Grassy marshes, hayfields	East and central	Rare	High aesthetic	None
Tellow rail	kare Winter Visitor	North America range: United States			
Laterallus jamaicensis			ć	:	:
Black rall	Grassy marshes, stubble fields	Coastal	Rare	High aesthetic	None
	Migrating	North America range: central, north- eastern and south- eastern United States			
Porphyrula martinica	Water: fresh swamps,	Eastern half	Abundant	High aesthetic	Moderately adverse
Furple gallinule	waterijy marsnes Summer, nesting	North America range: southeastern United States			
Gallinula chloropus Common gallinule	Water: fresh marshes, swamps, reedy ponds,	Eastern half and coast	Abundant	Aesthetic	Moderately beneficial
	Wintering, breeding	North America range: United States			

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Fulica americana American coot	Water: ponds, lakes, rarshes, bays Resident, migrating	Statewide North America range: United States	Abundant	Low sport, aesthetic V	c Very beneficial
FAMILY HAENATOPODIDAE (oystercatchers)					
<u>Haematopus palli tus</u> American oystercatcher	Coastal beaches, tidal flats Resident	Coastal North America range: eastern and Gulf coastal United States	Соптоп	Aesthetic	None
FAMILY CHARADRIIDAE (plovers)					
Charadrius melodus		Coastal	Uncommon	Aesthetic	None
Piping plover	Migrant, some wintering	North America range: northeastern, southeastern coast			
Charadrius alexandrinus	Sand flats, salt flats,	Statewide	Uncommon	Aesthetic	Moderately beneficial
Showy prover	sandy beaches of Streams, lakes, coast Resident	North America range: western and south- eastern United States			
Charadrius semipalmatus	Beaches, shores, flats	Statewide	Uncommon	Aesthetic	Moderately beneficial
Semipalmated plover	Nigrant, some winter	North America range: California coast and southeastern coast			
Charadrius wilsonia	Open beaches, tidal	Coastal	Common	Aesthetic	None
Wilson's plover	riacs, sandy islands Summer and wintering	North America range: southeastern coast			
Charadrius vociferus	Fields, airports, river	Statewide	Abundant	Aesthetic	Moderately beneficial
K111deer	banks, mudflats, shores Resident	North America range: United States			
Pluvialis dominica	Rangeland, plains,	Statewide as migrant	Abundant	Aesthetic	None
American golden plover	prairie, ileius, muu- flats, shores Migrant	North America range: central United States, Gulf coast			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Squatarola squatarola	Beaches, mudflats,	Statewide as migrant	Common	Aesthetic	None
Black-bellied plover	marshes Mígratinq, some wintering	North America range: United States			
FAMILY ARENARIIDAE (turnstones)					
Arenaria interpres Ruddy turnstone	Beaches, tidal flats, stone jetties	Eastern half and coast	Uncommon	Aesthetic	None
	Migrant, wintering	North America range: coastal United States			
FAMILY CALIDRIDIDAE (sandpipers)					
Philohela minor	Wet thickets, moist	Eastern half	Uncommon	Sport, aesthetic	Slightly adverse
WIETTCAN WOODCOCK	webolamus, Drusny Swamps Wintering, migrant	North America range: central and south- eastern United States			
Capella gallinago	Marshes, swamps, wet	Statewide	Соптол	High sport, aesthetic	etic
Connon snipe	medows, stream eages Wintering	North America range: United States			. Stignery beneficial
Numenius americanus	Prairies, rangeland,	Statewide	Common	High aesthetic	Slightly beneficial
Long-0111ed curiew	muoriats, beaches Migrating, wintering	North America range: southwestern and southern United States			
Numentus phaeopus hudsonicus	Shores, mudflats,	Coastal	Uncommon	High aesthetic	None
Nudsonian curiew, wnimbrei	prairies, marsnes Migrant, wintering	North America range: Gulf and California coast			
Bartramía longicauda	Prairies, fields	Statewide as migrant	Uncommon	High aesthetic	None
Upland plover	r) grant	North America range: northern United States			
Actitis macularia	Lake shores, stream-	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
סאסרובת ספותה אבן	4.0	North America range: United States			

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		Dand in Toyac			
Species	Habitat and/or Seasonal Status	North America	Abundance in Region	Values	Project Impact
Tringa solitaria	Streamsides, wooded	Stalewide as migrant	Abundant	High aesthetic	Moderately beneficial
Solitary sandpiper	swamps, ponds, fresh marshes Migrant	North America range: United States			
Catoptrophorus semipalmatus	Mudflats, beaches,	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
W)	marsnes, pond edges Migrant, resident	North America range: northeastern and coastal United States			
Totanus melanoleucus		Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
ureacer yellowlegs	streams, pond margins, shores Wintering, miorant	North America range: United States			
Totanus flavipes	Marshes, mudflats,	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
Lesser yellowlegs	snores, pond edges, streamsides Migrant, wintering	North America range: United States			
Calidris canutus	Tidal flats, shores	Coastal	Uncommon	High aesthetic	None
Knot	nigrant	North America range: coastal United States			
Erolia melanotos	Prairie pools, fields,	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
rectoral sandpiper	marsnes, mudriats Migrant	North America range: United States			
Erolia fuscicollis	Prairies, shores, mud-	Statewide as migrant	Uncommon	High aesthetic	Slightly beneficial
White-rumped sandpiper	riats, Migrant	North America range: United States			
Erolia bairdii		Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
Baird's sandpiper	margins, mudflats, beaches Migrant	North America range: United States			
Erolia minutilla	Mudflats, grassy	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
Least sandpiper	marshes, prairie pools, shores Migrant, wintering	North America range: United States			
Erolia alpina	Mudflats, margins,	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
ULI I II	Deaches, moday pools Migrant, wintering	North America range: United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Limnodromus griseus		Coastal	Uncommon	High aesthetic	None
Snort-bllied dowltcher	shallow ponds Migrant, winterino	North America range: United States			
Limnodronus scolopaceus	Mudflats, shallow pools,	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
Long-billed dowitcher	margins Migrant, wintering	North America range: United States			
Micropalama himantopus	Shallow pools, mudflats,	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
otiit sanapiper	Margins Migrant, occasional Wintering	North America range: United States			
Ereunetes pusillus	Beaches, shores, sandy	Statewide as migrant	Abundant	High aesthetic	Moderately beneficial
סבניו למוומרבת פמומלו להנ	istands, muditates Migrant	North America range: United States			
Ereunetes mauri	Shores, mudflats,	Statewide as migrant	Abundant	Kigh aesthetic	Moderately beneficial
western sanapiper	muday pools Migrant, wintering	North America range: coastal United States			
Tryngites subruficollis	Short-grass prairies,	Eastern half	Uncommon	High aesthetic	None
burr-breasted sandpiper	rieros Migrant	North America range: central and eastern coast			
Limosa fedoa	Prairies, pools, shores,	Coastal	Uncommon	High aesthetic	None
marbled godwit	tidal flats Migrant, wintering	North America range: northern central and southern United States			
Limosa haemastica Hudsonian godwit	Prairie pools, marshes, mudflats, ricefields	Northwestern and coastal	Uncommon	High aesthetic	None
	'' I grant	North America range: central and eastern coast			
Crocethia alba	Sandy beaches, tidal	Statewide as migrant	Uncommon	High aesthetic	None
500 D D D D D D D D D D D D D D D D D D	Migrant, wintering	North America range: coastal United States			

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		Range in Texas			Project
	Habitat and/or		Abundance in Region	Values	Impact
Species					;
FAMILY RECURVIROSTRIDAE (avocets, stilts)		Ctatewide as migrant	Abundant	High desthetic	Moderately beneficial
Recurvirostra americana	Beaches, flats, shallow	Nowth America range:			
American avocet	ponds	Western and southern			
	Migrant, wintering	United States		4	Madaataly bonoficial
• • • • • • • • • • • • • • • • • • • •	Ricefields, grassy	Coastal	Abundant	High desthetit	שכתפו מופול מפוריו ביני
Himantopus mexicanus Black-necked stilt	marshes, mudflats, shallow lakes, pools Wintering, summering	North America range: western and south- eactern United			
		States			
EAMIIY PHALAROPODIDAE (phalaropes)		•	thundant.	High aesthetic	Slightly beneficial
	Shallow lakes, pools,	Statewide as migrant	VDAII O BILL		
Steganopus tricolor	_	North America range:			
	เทิฐาสกร	central United			
			:	uinh apethotic	Singhtly beneficial
Lobipe: lobatu <u>s</u>	Open seas, lakes,	Northern, centra}. coast	Kare		•
Northern phalarope	shores	North America range:			
	Migrant	coastal and central United States			
				:	feiniam konoficial
FAMILY LARIDAE (guils and ceims)	Beaches, lakes, bays,	Coastal and eastern	Common	Aesthetic	ייטטפיימרפוע טפוופייטייי
Larus argentatus	gulf, dumps, piers	two-thirds			
Herring guil	Wintering, migrant	North America range:			
	4	C+++ewide	Common	Ansthetic	Moderately beneficial
o interest of a second in	Lakes, Days, gult,				
Ring-billed gull	dumps, fields Migrant, wintering	North America range:			
	•		4	Assthatic	None
	Coastal bays, salt	Primarily coastal	Abundant		
Laughing guil	marshes, gulf Resident	North America range: eastern coast			
		1			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Larus pipixcan	Prairies	Statewide as migrant	Common	Aesthetic	None
Franklin's gull	Migrant	North America range: northwestern and central United States			
Larus philadelphia Bonaparte's gull	Lakes, reservoirs, bays, gulf	Statewide as migrant coastal wintering	Common	Aesthetic	Sligitly beneficial
	Wintering	North America range: United States			
Gelochelidon nilotica Gull-billed tern	Salt marshes, fields, coastal bays Resident	Coastal North America range: Gulf coast	Abundant	Aesthetic	Slightly beneficial
Sterna forsteri Forster's tern	Sait marshes, bays, gulf, laken, rivers	Coastal, rare inland migrant	Abundant	Aesthetic	Slightly beneficial
	Resident	North America range: United States			
Sterna hirundo	Beaches, bays, gulf,	Coastal	Common	Aesthetic	None
Common tern	lakes Migrant	North America range: United States			
Sterna fuscata	Gulf	Coastal	Uncommon	Aesthetic	None
Sooty tern	Breeding along coast	North America range: Gulf coast			
Sterna albifrons Least tern	Beaches, bays, gulf, lakes, river	Coastal transient northeastern Texas	Соптол	Aesthetic	None
	r annue r	North America range: coastal and southern United States			
Thalasseus maximus	Coastal shores, jetties,	Coastal	Common	Aesthetic	None
Royal tern	piers Resident, breeding	North America range: coastal southeastern United States			
Thalasseus sandvicensis	Coastal water, gulf,	Coastal	Uncommon	Aesthetic	None
Sandwich tern	Jectus Summer, breeding	North America range: eastern and Gulf coast			

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	Habitat and/or	Pange in Texas and	Abundance		Project
Species	Seasonal Status	North America	in Region	Values	Impact
Hydroprogne caspia	Coastal waters, lakes	Coastal	Uncommon	Aesthetic	None
מסאלומון הפנון	kesident	North America range: United States			
Chlidonias niger	Fresh marshes, lakes,	Statewide as migrant	Abundant	Aesthetic	Moderately beneficial
biack tern	coastal waters Migrant	North America range: United States			
FAMILY RYNCHOPIDAE (skimmers)					
Rynchops nigra	Beaches, salt bays,	Coastal	Uncommon	Aesthetic	None
DIACK SKIIIIIET	tidemater Resident	North America range: eastern and Gulf coast			
FAMILY COLUMBIDAE (pigeons and doves)					
Columba livia	Cities, towns	Statewide	Abundant	Negative economic	None
nock gove, pigeon	Resident	North America range: United States			
Zenaidura macroura	Farmland, ranches,	Statewide	Abundant	High sport aesthetic	None
	comis, mesquite, wood- lands, open country, desert Resident, migrating	North America range: United States	·.		
Zenaida asiatica White-winged dove	Woodlands, mesquite, citrus groves, towns	Southern Texas, coastal	Rare	High sport	None
	Summering, accidental	North America range: southwestern United States			
Columbigallina passerina Ground dove	Farmland, dirt and gravel roads, open	Southern half, coastal	Uncommon	Aesthetic	None
	Resident	North America range: southern United States			
Scardafella inca Inca dove	Towns, gardens, parks, farms	Southern half, coastal	Uncommon	Aesthetic	None
	ומפון ר	North America range: southwestern United States			

		Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
FAMILY CUCULIDAE (cuckoos)					
Coccyzus americanus	Woodlands, mesquite,	Statewide	Abundant	High economic as Slightly adverse	Slightly adverse
Yellow-billed cuckoo	thickets, farms Summers, breeding	North America range: United States		insectivore, aesth	etic
(occyzus erythropthalmus	Wood edges, groves,	Eastern and central	Uncommon	High aesthetic	Moderately adverse
Black-Dilled cuckoo	inickets Migrant, breeding	North America range: central United States			
Geococcyx californianus	Deserts, brush, open	Statewide	Common	High aesthetic	None
koadrunner	country with scattered cover Resident	North America range: southwestern United States			
Crotophaga sulcirostris Groove-billed ani	Thick brushy country Migratory, breeding	Southern and coastal	Rare	High aesthetic scientific	Slightly adverse
		North America range: southern Texas, Gulf coast			
FAMILY TYTONIDAE (barn owls)		٠			
Tyto alba Barn owl	Woodlands, ranches, farms, towns, canyons Resident	Statewide except in mountains horth America range: United States	Uncommon	High economic for rodent control, high aesthetic	None
FANILY BUBONIDAE (owls)					
Otus asio Screech Owl	Woodlands, farm aroves, wood canyons streams Resident	Statewide North America range: western and central United States	Conmon	High economic, high aesthetic	Slightly adverse
Bubo virginianus Great horned owl	Woodland, canyons, streamsides, deserts Resident	Statewide North America range: United States	Соптоп	High economic for rodent control, high aesthetic	Slightly adverse
Speotyto cunicularia	Open plains, prairies,	Statewide	Uncommon	High aesthetic	None
SUFFORMING OWN	Vintering, migrating	North America range: western United States, southern Florida			

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	Habitat and/or		Abundance	Values	Project Impact
Species	Seasonal Status		To the state of	High acsthetic	Moderately adverse
Strix varia Barred owl	Woodlands, wooded river bottoms Resident	Eastern nail North America range: Contral United		.	
		States		Titothor doil	Moderately adverse
9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Woodlands, thickets,	Statewide as migrant	Rare	שולט מבארווברור	
AS10 Otus Long-eared owl	cedar groves Wintering	North America range: United States		•	
;	Prairies, marshes,	Statewide as migrant	Uncommon	High aesthetic	Moderately daverse
Asio flammeus Short-eared owl	coastal dunes Migrant, wintering	North America range: United States			
Aegolius acadicus	Woodland, groves,	Trans-Pecos, south- eastern corner Texas	Rare	High aesthetic	Singntiv adverse
Saw-whet owl	Casual wintering	North America range: United States			
FAMILY CAPRIMULGIDAL (goatsuckers)	pine forest, cedar	Eastorn half	Abundant	High aesthetic	Moderately adverse
Caprinulgus carolinensis Chuck-will's-widow	hills and valleys, river woodlands Migrant, breeding	North America renge: southeastern United			
;	Woodlands, oak thickets,	states Eastern and coastal	Uncommon	High aesthetic	Moderately adverse
Caprimulgus <u>vociferus</u> Whip-poor-will	Mood canyons Migrant	North America range: central and eastern United States			
FAMILY CHORDEILIDAE (nighthawks)	-		Abundant	High aesthetic	None
Chordeiles minor Common nighthawk	Open country, wood- land edges, cities, towns Summers, breeding	North America range: United States			
FAMILY MICROPODIDAE (swifts)	Open skys, chimneys, trees	Statewide except Trans-Pecos	Abundant	High aesthetic	None
Chimney switt	Migrant, summer, breeding	North America range: central and eastern United States			

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		Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
FAMILY TROCHILIDAE (hummingbirds)					
Archilochus colubris	Widespread, near	Statewide	Uncommon	High aesthetic	None
Ruby-throated hummingbird	flowering plants migrant breeding, summers	North America range: eastern and south- eastern United States			
Archilochus alexandri Black-chinned hummingbird		Statewide except Panhandle and eastern fourth	Common	Hígh aesthetic	None
	Migrant summers, breeding	North America range: western United States			
Selasphorus rufus Rufous hummingbird	Mountain meadows, streamsides, flowering	Western, central and coastal	Rare	High aesthetic	None
	piants Migrant	North America range: western United States			
FAMILY HALCYONIDAE (kingfishers)					
Ceryle alcyon	Rivers, ponds, lakes,	Statewide	Abundant	High aesthetic	Moderately beneficial
belted Kingrisner	bays Wintering, breeding	North America range: United States	٠,		
FAMILY DRYUCOPIDAE (woodpeckers)					
Colaptes auratus	Woodlands, groves,	Statewide	Common	High aesthetic,	Slightly adverse
Jellow-snatted Tilcker	rants, cowns, sent- open country Wintering, breeding	North America range: central and eastern United States		Insectivorous	
Colaptes cafer	Groves, streamside	Statewide	Rare	High aesthetic,	Slightly adverse
Ned-snatted tilcker	woodlands, tarms, towns, canyons Wintering	North America range: western United States		Insectivorous	
Dryocopus pileatus	Woodlands	Eastern third	Uncommon	High aesthetic,	Slightly adverse
Fileated Woodpecker	Kesldent	North America range: United States except southwestern		insectivorous	

	Habitat and/or	Range in Texas and	Abundance		Project
Species	Seasonal Status	North America	In region	Values	Impact
Centurus carolinus Red-bellied woodpecker	Woodlands, groves, towns	Eastern two- thirds	Соптоп	High aesthetic, insectivorous	Slightly adverse
	Resident	North America range: eastern and south- eastern United States			
Melanerpes erythrocephalus	Groves, farm country,	Eastern half	Common	High aesthetic,	Slightly adverse
Red-headed woodpecker	towns, scatterd trees Resident	North America range: central and eastern United States		Insectivorous	
Sphyrapicus varius	Woodlands, groves,	Statewide	Common	High aesthetic,	Slightly adverse
Yellow-bellied sapsucker	preterably near water Wintering	North America range: United States		insectivorous	
Cendrocopos villosus Hairy woodpecker	Woodlands, groves Resident, wintering	Eastern, northern and Trans-Pecos	Соптол	High aesthetic, insectivorous	Slightly adverse
		North America range: United States			
Dendrocopos pubescens	Woodlands, farm groves,	Central and eastern	Common	High aesthetic,	Slightly adverse
Downy woodpecker	towns Resident	North America range: United States		Insectivorous	
Cendrocopos scalaris	Canyons, deserts,	Western two-thirds	Uncommon	High aesthetic,	None
Ladder-backed woodpecker	ario brusniand, prairies Resident	North America range: southwestern United States		Insectivorous	
Dendrocopos borealis	Pine forest	Eastern edge	Rare,	High aesthetic,	None
Ked-COCKADEG WOODPESKET	kesident	North America range: southeastern United States	choangered, (federal, Texas)		
FAMILY TYRANNIDAE (tyrant flycatchers)					
<u>Tyrannus tyrannus</u> Eastern kingbird	Farmlands, orchards, roadsides Migrant, breeding	Statewide except Trans-Pecos North America range: United States	Abundant	High aesthetic, insectivorous	None

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Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
Tyrannus verticalis	Semi-open country,	Statewide	Uncommon	High aesthetic,	None
Western kingbird	scattered trees, forms, towns Migrant, breeding	North America range: central and western United States		spotokingser.	
Muscivora forficata		Statewide	Common	High aesthetic,	None
Scissor-tailed flycatcher	mesquite, ranches, farms, roadsides Migrant, summering, breeding	North America range: south-central United States		Insectivorous	
Mylarchus crinitus	Woodlands, groves,	Most of state	Common	High aesthetic,	Moderately adverse
Great crested flycatcher	Orchards Summers, breeding	North America range: central and eastern United States		500.004.735.00	
Sayornis phoebe	Streamsides, farms, towns	Most of state	Uncommon	High aesthetic,	Slightly adverse
Eastern phoebe	Mgrating, Wintering, breeding	North America range: central and south- eastern United States		insecci vorcus	
Sayornis saya	Brushy plains, desert	Western three-fourths	Rare	Aesthetic	None
say's phoebe	enges, canyon moutus Wintering	North America range: western United States			
Empidonax flaviventris	Woodlands, thickets	Eastern half	Uncommon	Aesthetic,	Moderately adverse
Yellow-bellied flycatcher	Migrant	North America range: central and eastern United States		Insectivorous	
Empidonax virescens	Open woods, wooded	Eastern half	Common	High aesthetic	Slightly adverse
Acadian flycatcher	streams Migrant, summering breeding	North America range: eastern half United States		sporoko na secono	
Empidonax trailii	Streamside thickets,	Statewide	Uncommon	High aesthetic,	Moderately adverse
Iraill's flycatcher	busny swamps, scrubby pastures Migrant	North America range: United States		99999	
Empidonax minimus	Open woodland, thickets,	Statewide	Contron	High aesthetic,	Slightly adverse
Least flycatcher	scattered trees, orchards Migrant	North America range: central and eastern United States		Insectivorous	

Species	Habitat and/or Seasonal Status	Range in Texas and No th America	Abundance in Pegion	Values	Project Impact
Contopus virens	Woodlands, groves	Eastern two-thirds	Common	High aesthetic,	Slightly adverse
Lastern wood pewee	Mgrant, summers, breeding	North America range: central and eastern United States		insectiverous	
Nuttallornis boreaiis	Forest, dead trees	Statewide	Uncommon	High aesthetic,	Moderately adverse
UllVe-Sided Tlycatcher	Migrant	North America range: United States		Insectivorous	
Pyrocephalus <u>rubinus</u> Vermilion flycatcher	Near water in desert country, streamsides,	Southwestern and coastal	Rare	High aesthetic, insectivorcus	None
	rresh ponds, canks Wintering	North America range: southwestern United States			
FAMILY ALAUDIDAE (larks)					
Eremophila alpestris	Plains, prairies,	Statewide	Uncommon	High aesthetic	None
horned lark	rields, snores, dirt roads, golf courses Wintering, breeding	North America range: United States			
FAHILY HIRUNDIHIDAE (Swallows)					
Tachycineta thalassina Violet-green swallow	Widespread Migrating	Trans-Pecos, coastal	Rare .	Aesthetic, insectivorous	None
		North America range: western United States			
Iridoprocne bicolor	Open country near water,	Statewide	Abundant	Aesthetic,	Slightly beneficial
ree swallow	marsnes, streams, lakes Migrating, wintering	North America range: United States		insectivorous	
Riparia riparia	Mear water, over fields,	Statewide	Common	Aesthetic,	Moderately beneficial
	Migrant, breeding	North America range: United States		IIISECCIVOROUS	
Stelgidopteryx ruficollis	Near streams and lakes	Statewide	Common	Aesthetic,	Moderately beneficial
אסנין באין ואַני סאמין אין אין אַני סאמין אין אַני סאמין אין אַני סאמין אין אַני אַני אַני אַני אַני אַני אַני	Jumer, Oreeaing	North America range: United States		וויייייייייייייייייייייייייייייייייייי	

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Hirundo rustica	Open country, farms,	Statewide	Abundant	Aesthetic,	None
Barn swallow	fields, marshes, lakes Migrant, breeding	North America range: United States		insectivorous	
Petrochelidon pyrrhonota	Open country, farmland,	Statewide	Uncommon	Aesthetic,	Slightly adverse
CITT SKALLOW	ciitts, canyons, river- sidec, streams Migrant, breeding	North America range: United States		Insectivorous	
Progne sub15	Towns, rural country	Statewide	Abundant	Aesthetic,	None
	migrant, preeding	North America range: United States		insectivorous	
FAMILY CORVIDAE (Jays and crows)					
Cyanocitta cristata Blue jay	Woodland, groves, towns	Eastern half and Panhandle	Abundant	Aesthetic, sometimes	Slightly adverse
	Resident	North America range: central and eastern United States		negative economic	
Corvus brachyrhynchos Common crow	Woodland, farmland, river groves	Statewide except arid southwestern	Common	Negative economic	Slightly adverse
	resident	North America range: United States	-,		
Corvus ossifragus	Coastal country and	Southeastern corner	Uncommon	Aesthetic	None
rish crow	lower reaches of rivers Resident	North America range: eastern and Gulf coast			
FAMILY PARIDAE (tits)					
Parus atricapillus	Woodland, thickets	Northern half	Rare	Aesthetic	Moderately adverse
סומנאינמסטים כוונאסנפט		North America range: United States			
Parus carolinensis	Woods, groves, towns	Central and eastern	Common	Aesthetic	Slightly adverse
carolina cnickadee	אפס ה	North America range: southeastern United States			
Parus bicolor	Woodland, shade trees	Eastern half	Common	High aesthetic	Slightly adverse
יחונפס נו משפחאפ	groves Resident	North America range: eastern and south- eastern United States			

	16	Range in Texas and Nouth Amoutes	Abundance in Region	Values	Project Impact
Species	Seasonal Status	ווסו כוו סייבי וכים			
FAMILY SITTIDAE (nuthatches)	2010000 0000000000000000000000000000000	Contral and eastern	Uncommon	High aesthetic	Moderately adverse
Sitta carolinensis White-breasted nuthatch	woodlands, groves. shade trees Resident	North America range: United States			
270000000000000000000000000000000000000	Woodland, groves, trees,	Most of state	Uncommon	High aesthetic	Moderately adverse
Red-breasted nuthatch	LC LC	North America range: United States			
Sitta pusilla Brown-headed nuthatch	Pine forest Resident	Eastern fourth North America range: southeastern United States	Common	High aesthetic	None
FAMILY CEPTHIDAE (creepers)				;	
Certhia familiaris Brown creeper	Woodlands, groves, trees Wintering	Statewide North America range: United States	Common	Aesthetic, insectivorous	Moderately doverse
FAMILY TROGLODYTIDAE (wrens) Troglodytes aedon House wren	Thickets, woodlands, brush, towns Migrant, wintering	Statewide North America range: United States	Conmon	Aesthetic, insectivorous	Moderately adverse
Troglodytes troglodytes Winter wren	Dense tangles of underbrush, woodland undergrowth	Statewide North America range: United States	Uncommon	Aesthetic, insectivorous	Moderately adverse
Thryomanes bewick11 Bewick's wren	Wincerina Thickets, undergrowth, towns, brush, deserts Resident	Statewide North America range: central and western United States	Uncommon	Aesthetic, insectivorous	Slightlv adverse
Thryothorus <u>ludovicianus</u> Carolina wren	Woodland and underbrush, trees and bushes along streams Resident	Eastern two-third North America range: central and eastern United States	Соптол	Aesthetic, insectivorous	Moderately adverse

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project
Telmatodytes palustris Long-billed marsh wren		Statewide as migrant	Uncommon	Aesthetic, insectivorous	None
Cistothorus platensis	Wintering Graces marches codes	United States			
Short-billed marsh wren	cordorass flats Micrating wintering	North America range:		Aestnetic. insectivorous	None
	מנות אין אין נפרות אין נפרות אין אין נפרות אין אין אין אין אין אין אין אין אין אין	central and eastern United States			
FAMILY MIMIDAE (mockingbirds, thrashers)					
Minus polyglottos Mockingbird	Towns, farm country,	Statewide	Abundant	High aesthetic,	None
	brush Resident	North America range: United States		insectivorous	
Dumetella carolinensis Catbird	Undergrowth, brush	Statewide as migrant	Uncommon	High aesthetic,	Slightly adverse
	Wintering, Dreeding,	North America range: central and eastern United States		insectivorous	
Toxostoma rufum Brown thrasher	Brushy country, thickets	Statewide	Abundant	High aesthetic,	None
	dincering, restuent	North America range: central and eastern United States		insectivorous	
Oreoscoptes montanus Sage thrasher	Brush plains Wintering	Western two-thirds, coast, northeastern	Uncommon	Aesthetic	None
		North America range: western United States			
FAMILY TURDIDAE (thrushes)					
Turdus migratorius Robin	Farms, towns, croplands,	Statewide	Common	Aesthetic	None
	Wintering, breeding	North America range: United States			
Hylocichla mustelina Wood thrush	Woodlands, shady thickets	Eastern half	Uncommon	Aesthetic	Moderately adverse
	Miarating, breeding	North America range: central and eastern United States			

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والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج
	Habitat and/or	and	Abundance		Project
SDBC1 0:5	Seasonal Status	North America	in Region	Values	Impact
Hylocichla guttata	Woodlands, thickets	Statevide	Urcommon	Aesthetic	Slightly adverse
חפרונו כ כוור עאו	nintering, migrating	North America range: United States			
Hylocichla ustulata	Woodlands. shady	Statewide	Abundant	Aesthetic	Slightly adverse
oka msom s turusn	unckets Migrating	North America range: United States			
Hylocichla minima	Woodlands, shady	Statewide	Uncommon	Aesthetic	Slightly adverse
aray-cneeken thrush	cnickets Migrating, wintering	North America range: United States			
Hylocichla fuscescens	Woodlands, shady	Eastern and coastal	Uncommon	Aesthetic	Slightly adverse
, veery	unickets Migrant	North America range: United States			
Stalfa stalfs	Farmland, open country	Eastern two-thirds	Common	High aesthetic	None
edstern blueblrd	with scattered trees Wintering, breeding	North America range: central and eastern United States			
Stalta moxicans					
Hestern bluebird	Open country, with scattered trees	Principally western two-thirds	Rare	Aesthetic	None
	Mintering	North America range: western United States			
Stalta currucoldes Mountain bluebird	Open country with scattered trees	Western two-thirds, northeastern	Rare	Aesthetic	None
	Mincering	North America range: western United States			
Myadestes townsend! Townsend's solitaire	Canyons, brush, slopes Wintering	Western two-thirds, northeastern	Rare	Aesthetic	None
		North America range: western United States			
FAMILY SYLVIIDAE (gnatcatchers, kinglets)					
Polioptila caerula Blue-gray quatcatcher	Woods, thickets, brush Wintering, migrating,	Statewide	Ahundant	Aesthetic	Moderately adverse
	breeding	North America range: southwestern, eastern United States			

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	Unkiese and/or	Range in Region	Abundance		Project
se to accompany	nabitat and/or Seasonal Status	North America	in Region	Values	Impact
Regulus satrapa	Woodland, thickets,	Statewide	Uncommon	Aesthetic	Slightly adverse
Golden-crowned kinglet	groves Wintering	North America range: United States except northeastern			
Regulus calendula	Woodlands, thickets	Statewide	Common	Aesthetic	Slightly adverse
Ruby-crowned kinglet	Mintering	North America range: United States			
FAMILY MOTACILLIDAE (pipits)			· .	:	
Anthus spinoletta	Fields, prairies,	Statewide	Abundant	Aesthetic	None
Water pipit	marsnes Migrant, wintering	North America range: United States			
Anthus sprague11 Soraque's pipit	Plains, prairies, airports	Statewide except Trans-Pecos	Uncommon	Aesthetic	None
	Migrating, wintering	North America range: central and south- eastern United States			
FAMILY BOMBYCILLIDAE (waxwings)		•	-		;
Bombycilla <u>cedrorum</u> Cedar waxwing	Semi-open country, woodlands, towns Wintering	Statewide North America range: United States	Common	Aesthetic	None e
FAMILY LANIIDAE (shrikes)					
Lanius excubitor Northern shrike		Northern third. coast	Rare	Aesthetic	None
	Casual wintering	North America range: northern and central United States			
Lanius judovicianus	Open country with	Statewide	Abundant	Aesthetic	None
Loggerhead shrike	scattered trees, scrub, desert Wintering, breeding	North America range: United States			
FAMILY STURNIDAE (starlings)					
Sturnus <u>vulgaris</u> Starling	Towns, farms, open country, groves, fields Wintering, breeding	Statewide North America range: United States	Abundant	Sometimes negative, economic	itive, Mone

rer trees g g trees, ing	Lo	bitst and/ow	Range in Texas	Ahundanco		Drojort
Oak scrub, brushy canyons Summers Summers Thickets, dense shrubs, near water Wintering, migrating, breeding Willow thickets along streams, mesquite Migrant, summers Moodlands, shade trees Migrant, breeding Woodlands, shade trees, groves Migrating, breeding Woodlands, trees Migrating, breeding Woodlands, trees Migrating, breeding Woodlands, trees Migrating, breeding Woodlands, trees Woodlands, trees Woodlands, trees, undergrowth	Se	asonal Status	North America	in Region	Values	Impact
Oak scrub, brushy canyons Summers Summers Thickets, dense shibs, mear water Wintering, migrating, breeding Willow thickets along streams, mesquite Migrant, summers Moodlands, shade trees Migrant, breeding Woodlands, shade trees, groves Migrating, breeding Woodlands, trees Migrating, breeding Woodlands, trees Migrating, breeding Woodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding Moodlands, trees, undergrowth	IDAE (vireos)					
Thickets, dense shrubs, near water Wintering, mar water Wintering, migrating, breeding willow thickets along streams, mesquite Migrant, summers Moodlands, shade trees Migrating, wintering wintering wintering wintering wintering wintering woodlands, trees Migrating, breeding wintering woodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding windergrowtin migrant, breeding		k scrub, brushy nyons	Central, northern central, southern	Uncommon	Aesthetic	None
Thickets, dense shrubs, near water Wintering, migrating, breeding Willow thickets along streams, mesquite Migrant, summers Migrant, breeding Moodlands, shade trees Migrating, wintering Woodlands, shade trees, groves Migrating, breeding Moodlands, trees Migrating breeding Moodlands, trees Migrating, breeding Woodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding Woodlands, trees, undergrowth Moodlands, trees, undergrowth breeding	Su.	mmers	North America range: south-central United States			
Shrubs, near water Wintering, migrating, breeding Willow thickets along Streams, mesquite Migrant, summers Woodlands, shade trees Modlands, shade trees, groves Migrating, wintering Modlands, trees Migrating, trees Migrating, breeding Woodlands, trees Migrating, breeding Woodlands, trees Migrating, breeding Modlands, trees, undergrowtii Migrant, breeding		ickets, dense	Statewide	Uncommon	Aesthetic	Slightly adverse
Willow thickets along streams, mesquite Migrant, summers Moodlands, shade trees Migrating, wintering Woodlands, shade trees, groves Migrating, breeding Moodlands, trees Migrating, breeding Migrating, breeding Migrating, breeding Migrating, breeding Migrating, breeding Migrating, breeding Moodlands, trees, undergrowthis Migrant, breeding		rubs, near water ntering, migrating, eeding	North America range: central and eastern United States	,		
Modlands, mesquite Migrant, summers Modlands, shade trees Migrant, breeding Modlands, shade trees, groves Migrating, breeding Modlands, trees Migrating, breeding Modlands, trees Migrating, breeding Modlands, trees Migrating, breeding Modlands, trees, undergrowtii Migrant, breeding	i X	llow thickets along	Statewide	Abundant	Aesthetic	Slightly adverse
Woodlands, shade trees Migrant, breeding Woodland trees Woodlands, shade trees, groves Migrating, breeding Woodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding Migrating, breeding Moodlands, trees, undergrowtii	iw 15	reams, mesquite grant, summers	North America range: southwestern and south-central United States			
Moodland trees Moodlands, wintering Woodlands, shade trees, groves Migrating, breeding Moodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding Moodlands, trees, undergrowtii		odlands, shade trees	Eastern half	Common	Aesthetic	Moderately adverse
Woodland trees Migrating, wintering Woodlands, shade trees, groves Migrating, breeding Moodlands, trees Migrating, breeding Moodlands, trees Migrating, breeding Moodlands, trees, undergrowtii		grant, breeding	North America range: central and eastern United States			
Modlands, shade trees, groves Modlands, trees Migrating, breeding Modlands, trees Migrating, breeding Migrating, breeding Modlands, trees, undergrowti: Migrant, breeding	SI	odland trees	Statewide	Uncommon	Aesthetic	Moderately adverse
Woodlands, shade trees, groves Migrating, breeding Woodlands, trees Migrating, breeding Migrating, breeding Moodlands, trees, undergrowtii Migrant, breeding		grating, wintering	North America range: United States			
Migrating, breeding Woodlands, trees Migrating Woodlands, trees Migrating, breeding Woodlands, trees, undergrowtii	m!	spu	Statewide except Trans-Pecos	Vincommon	Aesthetic	Moderately adverse
Woodlands, trees Migrating Woodlands, trees Migrating, breeding Woodlands, trees, undergrowtii	Æ		North America range: United States			
Modlands, trees Migrating, breeding can wood warblers) Woodlands, trees, undergrowti		odlands, trees	Eastern half	Uncommon	Aesthetic	Moderately adverse
Woodlands, trees Migrating, breeding can wood warblers) Woodlands, trees, undergrowti		grating	North America range: United States			
rigrating, breeding can wood warblers) Woodlands, trees, undergrowth		odlands, trees	Statewide	Uncommon	Aesthetic	Slightly adverse
can wood warblers) Woodlands, trees, undergrowtii Migrant, breeding		grating, breeding	North America range: United States			
Moodlands, trees, undergrowti Migrant, breeding	DAE (American wood warblers)					
Migrant, breeding		odlands, trees,	Statewide as migrant	Common	Aesthetic	Moderately adverse
ירמונים		grant, breeding	North America range: eastern half United States			

		Range in Texas			
	æ	and	Abundance		Project
Species	Seasonal Status	North America	in Region	Values	Impact
Protonotaria citrea	-	Eastern half	Uncommon	Aesthetic	Moderately adverse
Prothonotary Warbler	Migrant, breeding	North America range: eastern and south- eastern United States			
Limnothlypis swainsonii Swainson's warbler	Swamps, bogs, stream bottoms, heavy woodland	Eastern third, coast	Rare	Aesthetic	Moderately adverse
	undergrowth Migrant, breeding	North America range: eastern and south- eastern United States			
Helmitheros vermivorus	Woodlands, undergrowth	Eastern half	Rare	Aesthetic	Slightly adverse
Worm-eating warbler	Migrant	North America range: eastern and south- eastern United States			
Vermivora chrysoptera	Open woodlands, brushy	Coast	Uncommon	Aesthetic	Slightly adverse
Golden-winged warbler	clearings, undergrowth Migrant	North America range: eastern and southeastern United States	· :		
Vermivora pinus Blue-winged warbler	Woodland openings, undergrowth, bushy	Eastern half, principally coastal	Uncommon	Aesthetic	Slightly adverse
	euges Migrant	North America range: central and eastern United States			
Vermivora peregrina	Woodlands, groves,	Eastern half	Common	Aesthetic	Slightly adverse
lennessee ward ler	<i>Drusn</i> Migrant	North America range: eastern and southeastern United States			
Vermivora celata	Scattered trees,	Statewide as migrant	Common	Aesthetic	Slightly adverse
Urange-crowned warbler	Drusn, undergrowen Migrant, wintering	North America range: United States			
Vermivora ruficapilla	Woodland edges,	Statewide	Common	Aesthetic	Slightly adverse
Nashville warbler	tnickets Migrant	North America range: United States			

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Parula americana	Woodlands, groves,	Eastern two-thirds	Common	Aesthetic	Moderately adverse
raruia warbier	along creeks and swamps Migrant, breeding	North America range: eastern and southeastern United States			
Dendroica petechia	Willows, streamsides,	Statewide	Common	Aesthetic	Slightly adverse
Yellow warbler	shrubs Migrant, summer	North America range: United States			
Dendroica magnolia	Woodlands, groves	Eastern half	Abundant	Aesthetic	Moderately adverse
Magnoila warbier	nigrant	North America range: eastern half United States			
Dendroica caerulescens	Bushes, thickets,	Eastern half	Rare	Aesthetic	Slightly adverse
black-tilloated blue warbler	low trees Transient	North America range: eastern United States			
Dendroica coronata	Trees, brush, thickets	Statewide	Abundant	Aesthetic	Slightly adverse
myrtie warbier	Mgrating, winter	North America range: eastern and southeastern United States	·.		
Dendroica auduboni Audubon's warbler	Trees, brush, thickets Migrating, wintering	Western two-thirds and coast	Uncommon	Aesthetic	Slightly adverse
		North America range: western United States			
Dendroica nigrescens	Oaks, cedars, brush	Statewide	Rare	Aesthetic	Slightly adverse
Black-throated gray warbler	mgrant	North America range: western United States			
Dendroica virens	Woodlands, conffers	Eastern two-thirds	Соптоп	Aesthetic	Slightly adverse
biack-throated green warbier	Jugant.	North America range: eastern and southeastern United States			

	ſ	Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
<u>Dendroica chrysoparia</u> Golden-cheeked warbler	Cedars, oaks, streamside trees	Central and northern central	Uncommon	Aesthetic	None
	Resident	North America range: central Texas			
Dendroica cerulea Cerulean warbler	River woodlands Migrant, breeding	Eastern and coast as migrant	Uncommon	Aesthetic	Moderately adverse
		North America range: central and eastern United States			
Dendroica fusca	Woodlands, groves	Eastern half	Uncommon	High aesthetic	Slightly adverse
Blackburnian warbler	migrant	North America range: northern and southeastern United States			
Dendroica dominica	Open woodlands, river	Eastern two-thirds	Uncommon	High aesthetic	Moderately adverse
Yellow-throated warbler	forests, groves, cypress Migrating, wintering, breeding	North America range: central and eastern United States			
Dendroica pensylvanica	Shrubs, brush, open	Eastern half	Uncommon	High aesthetic	Slightly adverse
Chestnut-Sided Warbier	secono-growtn Migrant	North America range: eastern and southeastern United States	·.		
Dendroica castanea	Woodlands, groves	Eastern half	Common	High aesthetic	Slightly adverse
Bay-breasted Warbler	rigrant	North America range: eastern and southeastern United States			
Dendroica striata	Trees, groves	Eastern and coastal	Rare	High aesthetic	None
Biackpoll warbler	mgrant	North America range: eastern half Uniteó States			
Dendroica pinus		Eastern and coast	Common	High aesthetic	None
Fine Warbier	Mgrant, resident	North America range: central and eastern United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Dendroica discolor	Semi-open brush,	Eastern third	Rare	High aesthetic	Slightly adverse
Frairie wardier	low pines Migrant	North America range: central and eastern United States			
Dendroica palmarum	Low vegetation, weedy	Eastern and coast	Rare	High aesthetic	None
raim warbier	ground Transient	North America range: eastern and south- eastern United States			
Seturus <u>aurocapillus</u> Ovenbird	Woodland undergrowth, thickets Migrant	Statewide, principally eastern half	Uncommon	Aesthetic	Slightly adverse
		North America range: United States			
Seiurus noveboracensis	Swamps, streamsides,	Statewide	Common	Aesthetic	Slightly adverse
	Migrant	North America range: United States			
Seiurus motacilla	Wooded swamps, stream-	Eastern half	Uncommon	Aesthetic	Moderately adverse
LOGISTAIR MALET CITUS!!	Sides, unickets Migrant, breeding	North America range: eastern and southeastern United States	÷.		
Oporornis formosus	Woodland undergrowth	Eastern half	Uncommon	Aesthetic	Slightly adverse
Nentucky warbier	migrant, breeding	North America range: central and eastern United States			
Oporornis agilis	Thickets, undergrowth	Eastern half	Rare	Aesthetic	Slightly adverse
connecticut warbier	Migrant	North America range: central and southeastern United States			
Oporornis philadelphia	Thickets, undergrowth	Eastern half	Uncommon	Aesthetic	Slightly adverse
אסוטיווין אסן טובן	מבים בחור בים בים בים בים בים בים בים בים בים בים	North America range: central and eastern United States			

		Range in Texas			
	Habitat and/or	and	Abundance		Project
Species		North America	in Region	Values	Impact
Geothlypis trichas	Swamps, thickets,	Statewide	Abundant	High aesthetic	Slightly adverse
Yellowthroat	streamsides Migrant, breeding	North America range: United States			
Icteria virens	Brushy tangles, briars,	Statewide	Uncommon	High aesthetic	Slightly adverse
Yellow-breasted chat	thickets Migrant, breeding	North America range: United States			
Wilsonia citrina	Woodland undergrowth	Eastern half	Соптоп	Aesthetic	Slightly adverse
Hooded warbler	migrant, breeding	North America range: central and eastern United States	:		
Wilsonia pusilla	Low shrubs, thickets	Statewide	Abundant	Aesthetic	Slightly adverse
Wilson's warbier	ii grant	North America range: United States			
Wilsonia canadensis	Shady thickets, woodland	Eastern half	Uncommon	Aesthetic	Slightly adverse
Canada Warbler	Migrant Migrant	North America range: eastern and southeastern United States			
Setophaga ruticilla	Woodlands, groves	Statewide as migrant	Abundant	High aesthetic	Slightly adverse
Anerican redstart	rigrant, preeding	North America range: United States			
FAMILY PLOCEIDAE (weaver finches)					
Passer domesticus	Cities, towns, farms	Statewide	Abundant	Insectivorous,	None
House sparrow, anglish sparrow	rest den t	North America range: United States		sometimes negative economic	
FAMILY ICTERIDAE (meadowlarks, blackbirds, orioles)	, orioles)				
Dolichonyx oryzivorus	Fields, marshes	Eastern half	Uncommon	High aesthetic	None
Бобоглик	migrant	North America range: United States			
Sturnella magna	Fields, meadows,	Statewide	Abundant	High aesthetic	None
tastern meadowiark	prairies Breeding, wintering	North America range: central and eastern United States			

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Sturnella neglecta	Fields, meadow, prairies	Statewide	Uncommon	Aesthetic	None
Mestern meadowlark		North America range: central and western United States			
Nanthocephalus xanthocephalus	Fields, ranches,	Statewide	Uncommon	High aesthetic	None
fellow-neaded blackbird	marshes Migrant	North America range: central and western United States			
Agelaius phoeniceus	Marshes, swamps, fields,	Statewide	Abundant	High aesthetic	None
Ked-Winged Diackoird	Streams, jakes Resident	North America range: United States			
Icterus spurius	Towns, farms, orchards,	Statewide	Abundant	High aesthetic	None
סוכוים סריים בי	euges Migrating, breeding	North America range: central and eastern United States			
Icterus galbula	Woodlands, groves, shade	Eastern half	Common	High arsthetic,	Slightly adverse
	ures Migrant	North America range: central and eastern United States		Insectivorous	
icterus <u>bullackii</u> Bullock's oriole	River groves, towns, ranches	Western three-fourth as migrant	Uncommon	Hiçn aesthetic	None
		North America range: western United States			
Euphagus carolinus	River groves, woodland	Eastern half	Common	Aesthetic	Moderately adverse
Kusty biackbirg	swamps Wintering	North America range: central and eastern United States			
Euphagus cyanocephalus	Open country, fields,	Statewide	Abundant	Aesthetic	None
Drewer's DiackDird	rancues, couns, farms Wintering, breeding	North America range: central, western, southeastern United States			
Cassidix mexicanus	Riversides, swamps,	Statewide	Abundant	Often negative	Slightly adverse
מופמר-נמו ופת אומרונ	groves, wer interess, towns Resident	North America range: southwestern and central United States		5 = 50 = 50 = 50 = 50 = 50 = 50 = 50 =	

		Range in Texas			
Species	Habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Project Impact
Quiscalus quiscula	Croplands, towns,	Eastern three-fourths	Common	Often negative	None
COMPOST BY ACK 16	s creams roes Resident	North America range: eastern half United States			
Molothrus ater		Statewide	Abundant	Sometimes negative	None
brown-neaded cowbird	wood edges, groves, brush Resident	North America range: United States			
FAMILY THRAUPIDAE (tanagers)					
Piranga ludoviciana	Open woodlands	Statewide	Uncommon	Aesthetic	None
Western tanager	Migrant	North America range: western United States			
Piranga olivacea	Forest, shade trees,	Eastern half	Uncommon	High aesthetic	Moderately adverse
Scariet Lanager	especially oak Migrant	North America range: central and eastern United States			
Piranga rubra	Woodlands, river	Statewide	Common	High aesthetic	Slightly adverse
Summer tanager	groves, towns Migrant, breeding	North America range: southwestern, southern, eastern, United States			
FAMILY FRINGILLIDAE (finches)					
Richmondena cardinalis	Woodland edges,	Statewide	Common	High aesthetic	Slightly adverse
	enickets, comms Resident	North America range: eastern, central, southwestern United States			
Pheucticus ludovicianus	Woodlands, thickets	Eastern and coast	Uncommon	High aesthetic	Moderately adverse
nose-oreas tea grosoeak	of grant	North America range: central and eastern United States			
Pheucticus melanocephalus	Oaks in mountains,	Statewide	Uncommon	Aesthetic	Slightly adverse
black-neaded grospeak	streamside, groves Migrant	North America range: western United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Guiraca caerulea	Brushy places.	Statewide	Abundant	Aesthetic	None
Blue grosbeak	roadsides, thickets Migrant, resident	North America range: southern United States			
Passerina cyanea	~	Statewide	Common	High aesthetic	Slightly adverse
thango bunting	Migrant, breeding	North America range: central and eastern United States			
Passerina amoena	Open brushy country	Statewide	Rare	High aesthetic	None
Lazull bunting	rigrant	North America range: western United States			
Passerina ciris	Woodland edges, brush	Statewide	Conmon	High aesthetic	Slightly adverse
	Stream euges Migrant, breeding	North America range: southeastern and south-central United States			
Spiza americana	Fields, meadows,	Statewide	Common	High aesthetic	None
	prairies Migrant, breeding	North America range: central and eastern United States	·.		
Hesperiphona vespertina	Box elders, maples,	Statewide	Rare	Aesthetic	Moderately adverse
Evening groupeak	fruiting sarubs Wintering	North America range: United States			
Carpodacus purpureus	ماريوني ماريون				•
ייירטיי דיייניי	Modelands, groves Wintering	Eastern half North America range:	Uncommon	High aesthetic	Moderately adverse
		United States			
Carpodacus mexicanus House finch	Towns, ranches, canyons, deserts	Western half, central, coast	Uncommon	Aesthetic	None
	2 Uab 1 Say	North America range: western United States			

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		Range in Texas	Abundance	2	Project
Species	Seasonal Status	North America	in Kegion	values	Impact
Spinus pinus	Woodlands, groves,	Statewide	Uncommon	High aesthetic	Slightly adverse
רואפופ פורץ	coniters Wintering	North America range: United States			
Spinus tristis	Weedy places, edges,	Statewide	Common	High aesthetic	Slightly adverse
American goldfinch	groves Winter	North America range: western and southern United States			
Spinus psaltria Lesser goldfinch	Semi-open, brushy country	Western two-third, northern central	Uncommon	High aesthetic	None
	wintering, oregaing	North America range: western and south- western United States			
Chlorura chlorura	Brush, thickets	Statewide	Uncommon	Aesthetic	Slightly adverse
מופפודינסו זפס נסאומפ	ה היים ביים היים היים היים היים היים היי	North America range: western United States			
Pipilo erythrophthalmus	Brush, thickets, edges	Statewide	Common	Aesthetic	Slightly adverse
Kurous-sided townee	wintering	North America range: United States	•.		
Calamospiza melanocorys Lark bunting	Plains, prairies, fields	Western two-thirds, coast	Common	Aesthetic	None
		North America range: southwestern and central United States			
Passerculus sandwichensis	Prairies, fields,	Statewide	Abundant	Aesthetic	None
Savannan sparrow	marsnes, open country Wintering	North America range: United States			
Annodramus savannarum	Fields, prairies,	Statewide	Common	Aesthetic,	None
פו מסטווטףעפן סאמון יסא	Wintering	North America range: western, central, southeastern United States		Insectivorous	

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project Impact
Ammodramus bairdii Baird's sparrow	Prairies Winter	Western three-fourth, coast	Rare	Aesthetic	None
		North America range: central United States			
Passerherbulus caudacutus		Eastern half	Uncommon	Aesthetic	Slightly adverse
Le conce s sparrow	Wintering	North America range: central, south- eastern United States			
Passerherbulus henslowit	Weedy fields	Eastern half	Rare	Aesthetic	None
nension's sparrow	wintering	North America range: central and eastern United States			
Amospiza caudacuta	Salt marshes	Primarily coastal	Uncommon	Aesthetic	None
	8111.67.179	North America range: northeastern, eastern, south- eastern United States			
Amospiza maritima	Salt marshes	Coastal	Common	Aesthetic	None
ממסט משלים של מיש מיש מיש מיש מיש מיש מיש מיש מיש מיש	עפס ו ספט נ	North America range: eastern, south- eastern and Gulf coast			
Pooecetes gramineus	Fields, open country	Statewide	Common	Aesthetic	None
resper spartow	nigrating, wintering	North America range: United States			
Chondes tes grammacus	Open country, brush,	Statewide	Common	Aesthetic	None
במוא שלמו טיי	raniis, eages Breeding, wintering	North America range: Western and central United States, eastern coast			
Aimophila ruficeps Rufous-crowned sparrow	Rocky, brushy slopes Resident	Western three-fourth except southern Texas	Uncommon	Aesthetic	None
		North America range: southwestern United States			

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	Habitat and/or	Kange in lexas and	Abundance		Duniort
Species	Seasonal Status	North America	in Region	Values	Impact
Atmophila aestivalis	Open pine or oak woods,	Eastern third	Rare	Aesthetic	None
	busny pastures Resident	North America range: eastern half United States except far			
		north			
Aimophila cassinii Cassinis sparrow	Arid grassy country	Western two-thirds	Common	Aesthetic	None
	Wintering, breeding	North America range: south-central United States			
Junco hyemalis	Woodlands, edges,	Statewide	Common	Aesthetic	Slightly adverse
	Wintering	North America range: United States			
Junco oreganus Oregon junco	Woodlands, edges, brush	Western three-fourths	Uncommon	Aesthetic	None
		North America range: western United States			
Spizella arborea	Weedy fields, brushy	Northern two-thirds	Rare	Aesthetic	None
	Winter visitor	North America range: United States			
Spizella passerina	Open woodlands, farm-	Statewide	Common	Aesthetic	None
	iana, orchards, towns Wintering, breeding	North America range: United States except central			
Spizella pallida	Open brush, fields	Statewide	Common	Aesthetic	None
	3.50 (6):	North America range: central United States			
Spizella breweri Brewer's sparrow	Migrant	Western three- fourths	Rare	Aesthetic	None
		North America range: western and south- western United States			
Spizella pusilla	Brushy, semi-open	Statewide	Соптоп	Aesthetic	Slightly adverse
	Wintering, breeding	North America range: central and eastern United States			

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Species	Habitat and/or Seasonal Status	forth America	Abundance in Region	Values	Project Impact
Zonotrichia querula	Brush, edges, open	Statewide	Comron	Aesthetic	Moderately advers
Harris' sparrow	woodland Wintering	North America range: central United States	٠		
Zonotrichia leucophrys	Brushy places, edges,	Statewide	Common	Aesthetic	Slightly adverse
Mnlte-crowned sparrow	towns Migrant, wintering	North America range: United States			
Zonotrichia albicollis	Woodland undergrowth,	Statewide	Common	Aesthetic	Slightly adverse
Mn i ce-trifoated sparfow	tnickets Wintering	North America range: United States			
Passerella iliaca	Wooded undergrowth,	Statewide	Conmon	Aesthetic	Slightly adverse
	Wintering	North America range: central and western United States			
Relospiza 1incolnii	Thickets, pastures,	Statewide	Abundant	Aesthetic	Slightly adverse
Lincoln's sparrow	edges, tangles Migrant, wintering	North America range: United States			
Melospiza georgiana	Fresh marshes, sedgy	Eastern half	Common	Aesthetic	Moderately adverse
Spart on	swamps Wintering	'orth America range: eastern and southeastern United States			
Melospiza melodia	Brush, thickets, edges,	Statewide	Common	Aesthetic	Slightly adverse
Song sparrow	streamsides Wintering	North America range: United States			
Rhynchophanes mccown11	Open plains, fields				
McCown's longspur	Wintering	Western two-thirds, northern central	Uncommon	Aesthetic	None
		North America range: central United States			
Calcarius <u>lapponicus</u> Lapland Tongspur	Fields, prairies Wintering	Northern and northeastern	Uncommon	Aesthetic	None
		North America range: United States except far south			

		DEVAL AN TOXAC			10010
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	Habitat and/or	STORY THE SECOND	in Region	Values	THE STATE OF
	Seasonal Status	22 - DE 12 10 10 10 10 10 10 10 10 10 10 10 10 10		A A A	Moderately adverse
Species Calcarius ofctus	Fields, prairies,	Northern and northeastern	Uncommon	Aestneric	
Smith's Tongspur	Wintering	North America range: central United			
		States			None
Calcarius ornatus	Plains, prairies Wintering	Statewide except far east and	Rare	Aestnetic	
		North America range:	:		
		central and southwestern United States			

Source: Peterson (1967), and Oberholser, Kincaid, and Fuertes (1974)

MAMMALS OF TRINITY IVER DRAINAGE

	Habitat and/or	S	Abundance	Values	Project Impact
Solved	-,	North America	624		
FAMILY DIDELPHIIDAE (opossums) Didelphis marsupialis Opossum	Farming areas, woodlands, along streams	Statewide North America range: eastern half, West Coast	Abundant	Aesthetic, economic	Sliahtly adverso
FAMILY SORICIDAE (shrews) <u>Cryptotis parva</u> Least shrew	Open grass-covered areas, marshes	n two-thirds central America range: n half United	Соптеп	Aesthetic, insectivorous	Slightly adverse
Blarina revicauda Shorttail shrev	Forest, grassland, marshes, brushy areas	States Eastern fourth North America range: eastern half United States	Continon	Aesthetic, insectivorous	Very adverse
FAMILY TALPIDAE (moles) Scalopus aquaticus Eastern mole	Moist sandy loam, gardens, fields, meadows	Eastern half, western Panhandle, southern Trans-Pecos North America range: eastern half United States	Uncommon	Aesthetic, economic	Slightly adverse
FAMILY VESPERTILIONIDAE (plainnose bats) Lasionycteris noctivagans Silver-haired bat	Forested areas, occasionally buildings,	Northern two-thirds North America range:	Rare	Aesthetic, insectivorous	Slightly adverse
Pipistrellus subflavus	Caves, mines, crevices, buildings, wood areas	Eastern two-thirds except central	Соптоп	Arsthetic, insectivorous	Slightly adverse
Eastern pipistrei	near water	North America range: eastern half			slightly adverse
Eptesicus <u>fuscus</u> Big brown bat	Caves, tunnels, crevices, hollow trees, wooded areas	Statewide North America range: United States	Common	Aestnetit. insectivorous	

		Range in Texas	A Land de la constant		40000
Species	habitat and/or Seasonal Status	and North America	Abundance in Region	Values	Impact
Lasiurus borealis	Wooded areas	Statewide	Common	Aesthetic,	Moderately adverse
Red bat		North America range: United States except western mountains		insectivorous	
Lasjurus seminolus	Wooded areas	Eastern edge	Uncommon	Aesthetic,	Slightly adverse
Seminole bat		North America range: southeast coastal plain		Insectivorous	
Lasiurus cinereus	Wooded areas	Western two-thirds	Rare	Aesthetic,	None
Hoary bat		North America range: United States		insectivorous	
Lasiurus intermedius	Wooded areas	Coast	Rare	Aesthetic,	Slightly adverse
Eastern yellow bat		North America range: southeast coastal plain		Insectivorous	
Nycticeius humeralis Evening bat	Buildings and hollow trees, forested areas	Eastern third and coast	Соптол	Aesthetic, insectivorous	Slightly adverse
	and watercourses	North America range: southeast United States			
FAMILY MOLOSSIDAE (freetail bats)					
Tadarida brasiliensis	Caves, buildings,	Western three-fourths	Abundant	Aesthetic,	None
Mexican freetal! bat	tunneis, wells	North America range: southwest United States, southeast coastal plain		insectivorous, negative health	
FAMILY PROCYONIDAE (raccoons)					
Procyon lotor	Along streams, lakes	Statewide	Abundant	Aesthetic,	Moderately adverse
Raccoon	near wooded areas or rocky cliffs	North America range: United States		nigh sport	
FAMILY BASSARISCIDAE (ringtails)					
Bassariscus astutus Ringtail cat	Chaparral, rocky ridges, cliffs	Southern half, southern Panhandle	Uncommon	Aesthetic, economic, rodent	None
		North America range: southwest United States		predator	

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Species	Habitat and/or Seasonal Status	P E	Abuncance in Region	Values	Froject Impact
FAMILY MUSTELIDAE (weasels, skunks)					
Mustela frenata	All habitats	Statewide	Rare	Aesthetic, economic, Moderately adverse	Moderately adverse
Longtail weasel	near water	North America range: United States		rodent predator	
Mustela vison	Along streams and	Eastern half	Rare	Aesthetic, economic	Moderately adverse
Mink	lakes, fresh and brackish marshes	North America range: United States except southwest			
Lutra <u>canadensis</u> River otter		Eastern fourth and upper coast	Rare	Aesthetic, economic	Moderately adverse
	marshes, bayous	North America range: United States except southwest			
Spilogale putorius	Brushy or sparsely	Statewide	Common	Rodent predator	Slightly adverse
Spotted skunk	wooded areas, along streams, prairies	North America range: United States except northeast, far north			
Mephitis mephitis	Semiopen country,	Statewide	Abundant	Rodent predator,	Moderately adverse
Striped skunk	mixed woods, brushland, prairies	North America range: United States		economic	
Conepatus leuconotus	Partly wooded, brushy,	Southern half	Uncommon	Rodent predator	Slightly adverse
Hognose skunk	rocky areas	North America range: southwest United States			
FAMILY CANIDAE (dogs, wolves, foxes)					
Canis latrans	Prairies, open woodlands,	Statewide	Common	Aesthetic,	Slightly adverse
Coyote	brushy or boulder-strewn areas	North America range: United States except southeast		Jonesia pressa	
Canis niger Red wolf	Brushy and forested areas, river bottoms	Reduced recently to upper coast	Rare (Endangered:	Aesthetic, rodent predator	Slightly adverse
		North America range: central-southern United States	rederal, Texas)		
Vulpes fulva		Eastern and central	Uncommon	Aesthetic, sport,	Slightly adverse
Red fox	and open country	North America range: United States except western mountains		rodent predator	

Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Project Values Impact	ect
Urocyon cinereoargenteus Gray fox	Chaparral, open forest, rimrock	Statewide except northwestern	Соттол	Aesthetic, economic, rodent predator Moderately adverse	y adverse
	country, wooded areas	North America range: United States except northwestern			
FAMILY FELIDAE (cats)					
Felis concolor	Rugged mountains, forest,	Southern half	Rare (Endangered:	Aesthetic, economic None	
אַסעוולמוח ווסוו	SWallpa	North America range: western and Gulf coast	(chadigered) federal)		
Lynx rufus	-24	Statewide	Uncommon	Aesthetic, rodent Slightly adverse	adverse
Bobcat	swamps and forest	North America range: most of United States		predator	
FAMILY SCIURIDAE (squirrels)					
Citellus tridecemlineatus Thirteen-lined ground squirrel	Shortgrass prairies, golf courses	Central third and Panhandle	Common	Aesthetic None	
		North America range: central and north- east United States			
Sciurus carolinensis	River bottom hardwood	Eastern third	Common	Aesthetic, high sport	
Eastern gray squirrel	forest	North America range: eastern half		Very adverse	erse
Sciurus niger Eastern fox squirrel	Open hardwood forest, pine forest	Eastern half, central, eastern Panhandle	Abundant	Aesthetic, high sport Moderatel	t Moderately advirse
		North America range: eastern half			
Glaucomys volans	Woodlots and forest of	Eastern third	Соптол	Aesthetic Moderately adverse	y adverse
Southern tlying squirrel	deciduous or mixed deciduous-coniferous	North America range: eastern half			
FAMILY GEOMYIDAE (pocket gophers)					
Geomys <u>bursarius</u> Plains pocket gopher	Grasslands, pastures, alfalfa fields	Eastern half, Panhandle	Common	Aesthetic, sometimes negative economic Slightly adverse	adverse
		North America range: central United States			

Species	Habitat and/or Seasonal Status	Rail in Texal and North America	Aburdance	VA.	Project
FAMILY HETEROMYIDAE (pocket mice, kangaroo mice and kangaroo rats)	oo mice and kangaroo rats)		no i sa i i i	values	Impact
Perognathus nispidus Hispid pocket mouse	Shortgrass prairie with sparse vegetation	Statewide	Uncommon	Aesthetic	Slightly adverse
		North America range: central United States			
FAMILY CASTORIDAE (beaver)					
<u>Castor</u> <u>canadensis</u> Beaver	Streams and lakes with	Statewide	Uncommon	Aesthetic, can be	Moderately adverse
		North America range: most of United States		positive or negative economic	ive
FAMILY CRICETIDAE (mice, rats, lemmings and voles)	and voles)				
kelthrodontomys humulis Eastern harvest mouse	Old fields, marshes,	Southeast	Uncommon	Aesthetic	Clichtly advoced
	drained prairies	North America range: southeastern United States			ac acos de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la constitución de la
Reithrodontomys montanus Plains harvest mouse	Upland, well drained areas, shortgrass	Western two-thirds except southern	Соттоп	Aesthetic	None
		North America range: south-central United States			
Fulvous harvest mouse	Grasslands, scattered brush and mesquite	Statewide except northwest	Common	Aesthetic	None
Doromore Same Same		North America range: south-central United States			
Deer mouse	Wide variety of dry- land habitat	Western two-thirds except southern	Abundant	Aesthetic	Slightly adverse
		North America range: United States except southeast coastal plain			
White-footed mouse	Wooded, brushy areas	Statewide	Abundant	Aesthetic	Slightly adverse
ракотилестве этгалага		North America range: central and eastern United States			
Cotton mouse	Wooded areas along streams, swamplands		Солтол	Aesthetic	Slightly adverse
		North America range: southeastern United States			

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Species	Habitat and/or Seasonal Status	Range in Texas and North America	Abundance in Region	Values	Project. Impact
Peromyscus boylei Brush mouse	Chaparral areas of arid and semiarid regions, rocky habitat	Western two-thirds except southern North America range: southwestern United States	Сопяпоп	Aesthetic	None
Peromyscus <u>nuttalli</u> Golden mouse	Forest, edges canebreaks, moist thickets, greenbrier	Eastern edge North America range: southeastern United States	Uncommon	Aesthetic	Slightly adverse
Balomys taylori Pygmy mouse	Grassy and weedy areas	Eastern half except northeastern North America range: east and south Texas	Abundant	Aesthetic	Sliahtly adverse
Neotoma floridana Eastern woodrat	Rocky cliffs, hammocks, swamps, yuccas and cacti groves	Eastern half except south North America range: southeastern United States	Соптоп	Aesthetic	Moderately adverse
Oryzomys <u>palustris</u> Rice rat	Marshy areas, grasses, sedges, salt and brackish marsh	Eastern and coastal North America range: southeastern United States	Common .	Aesthetic	None
Stymodon hispidus Hispid cotton rat	Tall grass, sedge, weeds, moist areas	Statewide North America range: southeastern and south-central United States	Abundant	Aesthetic, may be negative economic	c Slightly adverse
Pitymys pinetorum Pine vole	Forest with thick layer of leaf litter-deciduous and conferous	Northeast and central North America range: eastern half United States	Uncommon	Aesthetic	Slightly adverse
Ondatra <u>zibethica</u> Muskrat	Fresh and salt marshes, edges of ponds, lakes, streams	North and east edge, Trans-Pecos, coast North America range: most of United States	Common	High economic, aesthetic	Slightly adverse

	Habitat and/or	ng and and	Abundance	1.71	Project
peci 35	Sedsonal Status	North America	ın kegion	varues	Impact
FAMILY MURIDAE (old world rats and mice)					
Rattus norvegicus	Towns, cities, farms	Statewide	Abundant	Negative economic	None
Norway rat		North America range: United States			
Rattus rattus	Towns, cities, farms	Statewide	Abundant	Negative economic	None
Black rat		North America range: United States			
Mus musculus	Towns, cities, farms	Statewide	Abundant	Negative economic	None
House mouse		North America range: United States			
FAMILY CAPROMYIDAE (nutria)					
Myocastor ccypus	Marshes, swamps, ponds,	Eastern two-thirds	Abundant	Can be positive or	Moderately beneficial
NUCCTA	lakes	North America range: introduced in many localities in United States		negative economic	
FAMILY LEPURIDAE (hares and rabbits)					
Lepus cailfornicus	Open prairies and	Western three-fourths	Abundant	Aesthetic, negative	
bidcktdii jackrabbit	sparsely vegetated deserts	North America range: western half except far north		economic	Slightly adverse
Sylvilagus floridanus Eastern cottontail	Heavy brush, open forests, edges of swamps,	Statewide except Trans-Pecos	Abundant	High sport, negative economic	Slightly adverse
	weed paccnes	North America range: eastern and central United States			
Sylvilagus aquaticus	Fresh and brackish	Eastern third	Abundant	Sport, aesthetic	Moderately adverse
Swamp rabbit	marshes, swamps, wet bottomlands	North America range: Gulf coastal plain			
FAMILY CERVIDAE (deer)					
Odocolleus virginianus	Forests, swamps, open	Statewide	Common	High sport	Moderately adverse
Mn) te-talled deer	orusny country	North America range: most of United States			

S. Crarios	Habitat and/or Seasonal Status	Range in lexas and North America	Abundance in Region	Values	Project Impact
FAMILY DASYPODIDAE (armadillos) Dasypus novemcinctus Armadillo	Woodlands, brushy areas, rock outcrops, cliffs	Statewide except Panhandle and Trans- Pecos North America range: Gulf coastal plain	Abundant	Aesthetic, economic M	Moderately adverse
FAMILY TRICHECHIDAE (manatee) Trichechus <u>manatus</u> Manatee	Brackish water lagoons, mouths of rivers, bays	Coast North America range: southeastern coast	Rare (Endangered: federal, Texas)	Aesthetic	None

Source: Burt and Grossenheider (1964), and Davis (1966)

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	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project impait
PSILOTACEAE (whisk fern family) Psilotum nudum (L.) Beauv. Whisk fern HABITAT: swamps and low wet woods, near tree and stump bases	Southeastern Texas	Southeastern coastal plain	On Texas rare and endangered plant list	Low for food, cover	NA *	None
LYCOPODIACEAE (clubmoss family) Lycopodium alopecuroides L. Foxtail clubmoss HABITAT: wet places in savannahs, boggy places in	Southeastern Texas	Southeastern and eastern coastal plain	Uncommon	Low for food, some use for nest material	NA	Slightly adverse
Lycopodium adpressum (Chapm.) Lloyd and Underw. Southern clubmoss HABITAT: depressions in savannahs and flat open pinelands, bogs, sphagnous	Eastern and southeastern Texas	Southeastern and eastern coastal plain	Uncommon	Low for food, some use for nest material	e e	None
Lycopodium carolinianum L. Slender Clubmoss HABITAT: depressions in savannahs and flat open pinelands	Southeastern Texas	Southeastern and eastern coastal plain	Rare	Low for food, some use for nest material	AN	None
SELAGINELLACEAE (spikemoss family) Selaginella apoda (L.) Spring Meadow spikemoss HABITAT: moist places,	Eastern half of Texas	Eastern half of United States	Common	Low for food, some use for nest material	NA	Slightly adverse
Selaginella Riddellii Van Eselt. Spikemoss HABITAT: sandy or gravelly sofl in open woods, sunny ledges, rocky slopes, barrens	Eastern third of Texas	Alabama to Oklahoma and Texas	Common	Low for food, some use for nest material	Ä	Slightly adverse
ISOETACEAE (quillwort family) Isoetes melanopoda Gay and Durieu. Quillwort HABITAT: shallow ponds, bogs, wet thickets and woods. seasonal streams and puddles	Scattered in eastern half of Texas	Eastern half of United States	On Texas rare and endangered plant list	Low for food, some use for nest material	W W	None

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Spar for	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Equisetum hyemale L. Statewide Horsetail Horsetail HABITAT: sandy or loamy soils in open or wooded areas along streams, on alluvial flats, seepages, wet ledges	rush family) Statewide	All United States	Common	Rootstock and stems eaten by geese and swans	Aesthetic, curious plant	Moderately adverse
OPHIOGLOSSACEAE (adder's-tongue family) Botrychium dissectum Spreng. Ea Grape-fern HABITT: low wet open woods, swamps, moist sandy pinelands, on rotting wood	ily) Eastern Texas	Southeastern United States	Uncolation	Low for food, winter greens	кя	Sliahtly adverse
Botrychium virginianum (t.) Sw. Rattlesnake-fern HABITAT: noist rich woodlands, and thickets, occasionally in alluvium of swamps	Eastern half of Texas	Easirn half of United States	Uncommon	Low for foog, winter greens	V.	Slightly adverse
Ophioglossum Engelmannii Prentl. Adder's tongue HABITAT: thin black soil on limestone, rocky woodland slopes, generally on blackland prairie	Eastern Texas	Southeastern and south-central United States	Соптол	Low for food	¥.	None
SCHIZAEACEAE (curly-grass family) Lygodium japonicum (ihunb.) Sw. Climbing fern HABITAT: sandy damp woods, along streams and rivers, roadside ditches, well established locally OSMINDACEAE (cinnamon fern family)	Southeastern corner of Texas	Hative of Australia and Asian tropics, escaped and established in southeastern United States	Cormon	Low for food	Ornamental	Slightly adverse
**Osmunda cinnamomea L. Cinnamon fern KMBIAT: moist soil of swamps, marshes, seepage slopes, along streams and lake edges	Timber belt, coastal prairies, and blackland prairies	Throughout eastern North America from Newfoundland to Minnesota, south to central Florida and New Mexico	Сопироп	Low for food, rarely eaten by wildlife principally grouse, sometimes by deer, and fur animals	Aesthetic	Moderately beneficial

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impac
**Osmunda regalis L. Royal fern HABITAT: swamps, marshes, moist woods, depressions in savannahs and prairies, stream banks, seepage slopes	Timber belt, south and southwest to coast	East Canada to Florida and Texas	Сонтоп	Low for food, eaten by deer and fur animals	Aesthetic, ornamental	Slightly adverse
**Marsilea mucronata A. Br. **Marsilea mucronata A. Br. Water Clover HABIAT: shallow water, black waxy mud along streams and rivers, in silt of lakes, in ditches and depressions, occurs in	Statewide except timber belt, most abundant on blackland prairies and on Edwards Plateau	Canada south through the Gulf states	Соммол	Low for food by ducks	Scientific	Moderately beneficial
**Narsilea uncinata A. Br. Hooked pepperwort HABITAT: in or near edge of permanent ponds, springs, ditches, bayous	Scattered localities statewide	Texas and Louisfana	Uncormon	Low for food by ducks	н	Slightly beneficial
SALVINIACEAE (salvinia family) Azolla caroliniana Willd. Water fern HABITAT: on still water of swamps, ponds, lakes, slow moving water of streams	Sporadically distributed in eastern and southern Texas	Central and southeastern United States	Unconmon	IIA	Aesthetic	Moderately beneficial
POLYPODIACEAE (true fern family) Pteridium aquilinum (L.) Kuhn Bracken HABITAT: dry woods and thickets	Timber belt of ast Texas and southern edge of blackland prairie	Northeastern and southeastern United States	Соттол	ИА	Poisonous to cattle and horses	None
Pteris multifida Poir. Huguenot-fern HABITAT: commonly on masonry	Naturalized in eastern Texas and in Rio Grande Valley	Widely introduced in United States	Common	Low for food	Aesthetic, cultivated	None
**Addantum Capillus-Veneris L. Maidenhair fern HABITAI: Ilmestone rocks, ledges, cliffs, along streams, pools, canyons, ravines	Most of Texas except far east, northeast, and south	Southeastern and southwestern United States	Uncomion	Low for food	Aesthetic, ornamental	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Pellaea atropurpurea (L.) Link Purple Cliff brake HABITAT: rock ledges, cliffs, canyon walls, banks, talus slopes, open rocky woods	Statewide	Eastern half and southeastern United States	Rare	Low for food	Aesthetic	None
Pellaea ternifolia (Cav.) Link Cliff brake HABITAT: crevices, ledges, boulders, rocky ridges, sandstone usually in exposed situations	Trans-Pecos, central and eastern Texas	Southwestern, south- contral United States	Rare	Low for food	Aesthetic	None
Cheilanthes tomentosa Link Woolly lipfern HABITAT: crevices of ledges on cliffs, boulders, wooded hillsides, on sandstone, granite or siliceous rock	Scattered through much of Texas	Southeastern United States to Arizona	Common	Low for food	Aesthetic	None
Chellanthes alabamensis (Buckl.) Kunze Alabama lipfern HABITAT: limestone hills, rock crevices, ravines, canyons	Most of Texas, frequent on the Edwards Plateau and in the blackland prairies and Trans- Pecos	Southeastern United States to Arizona	Common	Low for food	Aesthetic	None
**Onoclea sensibilis L. Sensitive fern HABITAT: moist areas	Eastern third and southern Texas	Eastern half United States	Common	Low for food	Aesthetic, scientific and curious plant	Slightly adverse
Woodwardia virginica (L.) Sm. Virginia chain fern HABITAT: sphagnous bogs, swamps, moist thickets and meadows, along streams	Generally distributed in timber belt of East Texas	Eastern half United States	Contrion	Low for food	Aesthetic, ornamental	None
**Lorinseria areolata (L.) Presl. Chain fern HABITAT: sandy bogs, swamps, marshes and thickets	Frequent in timber belt, south to Jefferson County in the coastal prairies, Bastrop and Gonzales Counties in the blackland prairies	Florida to Texas, Arkansas and Missouri, north to Nova Scotia and Michigan	Common	Low for food	Aesthetic	None
Polypodium polypodioides (L.) Watt Resurrection fern HABITAT: growing on various species of trees, occasionally on rock ledges, boulders, old buildings and mossy banks, shady and damp locations	Generally distributed in eastern half of Texas	Southeastern United States	И псоп то п	Luw for food	Aesthetic, curious plant	Slightly adverse

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			Abundance	Use for		40 40 40 40 40 40 40 40 40 40 40 40 40 4
	00000	United States Range	in Region	Wildlife Habitat	Other Values	Project Impact
Species	Harton contral and	Southeastern and	Common	Low for food	Scientific,	None .
Asplenium resiliens Kunze Little ebony spleenwort HABITAT: crevices of cliffs,	-	south-central United States			occurs on shell mounds	
<pre>boulders, limestone, granite; calcareous soils; usually in shaded dry</pre>						
situations **Asplenium platyneuron (L.)	Eastern half of	From Canada south to	Uncommon	Low for food	Ornamental, terrarium	None
D.C. Eat. Ebony spleenwort HABITAT: sandy loam slopes,	6242	Louisiana			piant	-
Athyrium Filix-femina (L.) Roth	Eastern Texas	Southeastern United States north to	Сопупол	Low for food	Aesthetic	Sliahtly adverse
HABITAT: sandy bogs, moist sandy woods, swamps, wet thickets, on stream banks		Massachusetts		•	4 4 4 4	guo
**Woodsia obtusa (Spreng.) Torr.	Generally distributed,		Common	Low for tood	San Salv)
HABITAT: rocks, along rather dry shaded ledges, on rock	timber belt and cross timbers, eastern part	Nebraska, south to Georgia and southwest to western Texas				
outcrops and cilits, sandstone and granite regions, well-drained wooded						
banks, talus slopes, sandy knolls				-		goo
**Cys copteris fragilis (L.) Bernh.	Local and rare in the Devil's Sink	From Labrador to Alaska, south to	Rare	Browsed by deer and rabbits, low	Aestnetic	
HABITAT: crevices of cliffs,		Georgia, and southwest to Texas, Arizona, and		va i ue		
wooded talus slopes, up to	Trans-Pecos; and southern blackland prairies	southern California				
**Polystichum acrostichoides (Michx.) Schott	Frequent througho	From Nova Scotia to Wisconsin, south to	Соптоп	Low food value, rarely eaten by	Aesthetic	Slightly adverse
Christmas fern HABITAT: on rocky rick wooded hillsides or steep banks of	southeastern Texas	Florida and lexas, also Mexico				
ravines along streams, along sandy creeks and in swamps and thickets						

		Conc. Caston	Abundance	Use for Wildlife Habitat	Other Values	Project Impact
Species	State Kange	חוו ופת פום ומים שמוואב		For Ford	Apr that to	None
Sword fern Sword fern woodlands, rocky	Eastern and central Texas	Gulf coastal plain	Uncommon	Low for food	אפא מופ מוכ	
banks, on trees				•	A	ou on
Thelypteris dentata (Forsk.) E. St. John	Timber belt of East Texas	Gulf coastal plain	Rare	Low for food	Aestnetic	
DOWNY STIELD TETH HABITAT: rocky wooded slope, hammocks in swamps, along						
wooded streams, low elevations		:	;	took food	Aprehotto	None
**Thelypteris Kunthii (Desv.) Morton Southern shield fern HABITAT: moist areas especially at base of dripping	Eastern and southeastern Texas	Florida to South Carolina and Texas	Common	LOW TOT T000	, , , , , , , , , , , , , , , , , , ,	
11mestone bluffs				,	•	ou o N
The Typteris hexagonoptera	Timber belt of East Texas	Florida to eastern Texas, north to	On Texas rare and endangered	Low for food	Aesthetic	
Broad beech fern HABITAT: sandy wooded slopes,		Quebec and Minnesota	plant list			
ravines, open rocky thickets, low swampy woods, bogs						
Thelypteris Torresiana (Gaudich.) Alston True fern	Eastern Texas	Introduced in Florida, Uncommon, Alabama, Texas escaped from (native of Asia) cultivation	. Uncommon, escaped from cultivation	Low for food	Aesthetic, ornamental	моне
HABITAT: along streams in pinelands, swamps, marshes, molst wooded banks						
PINACEAE (pine family)					A - 1 - 1 - 1 - 1	osmonbe ulthoils
**Pinus taeda L. Lobiolly pine HABITAT: sands, sandy loams, gravelly soils in flatwoods on ridges and hills,	Eastern Texas	Coastal plain from northeastern United States to eastern Texas	Abundant	Noderate to high for fooddeer, squirrel, turkey	Aestnetic, lumber, fuel	ac land Alaidin
**Pinus echinata Mill. Shortleaf pine HABITAT: well-drained hills,	Eastern Texas	Northeastern United States to northern Florida and eastern Texas	Abundant	Moderate to high for fooddeer, squirrel, turkey	Aesthetic, lumber	None

Species	State Pange	United States Range	Abundance in Region	Use for Wildlife Habit	Other Values	Project Impact
TAXODIACEAE (taxoidium family) **Taxodium distichum (L.) Rich. Bald cypress HABITAT: wet and frequently inundated areas, swamps, along rivers and streams	as teau		Abundant	Low for food, moderate to high for cover and dens, food for squirrels	Aesthetic, ornamental, lumber	Slightlv beneficial
CUPRESSACEAE (cypress family) Juniperus Ashei Buchh. Rock cedar, post cedar HABITAT: rocky soil in canyons, ravines, arroyos, rimrocks forms thickets or "cedar breaks"	Edwards Plateau, extending to north-central and south to Zavala County	South-central United States	Copyrion	Moderate to high for food, high for cover, mature trees nesting habitat for golden-cheeked warbler (Dendroica chrysoparia) -a potential rare and endandered species	Ornamental, fence posts, fuel	None
Juniperus silicicola (Small) Bailey Southern red cedar HABITAT: sandy soil	Southeastern Texas	Ccast from North Carolina to Texas	Uncommon	Moderate to high for food, high for cover	Ornamental	None
**Juniperus virginiana L. Eastern red cedar HABITAT: dry forest, old fields	Eastern and northwestern Texas	Northeastern United States, south and west to Kansas and Texas	Соптол	Noderate to high for food, fruit eaten by birds, squirrels, deer, turkey, high for cover	Ornamenta i	None
TYPHACEAE (cat-tail family) **Typha latifolia L. Common cat-tail HABITAT: shallow water and along streams	Statewide	Throughout	Abundant	Moderate to high as waterfow! habitat, geese and muskrats eat underground stems	Aesthetic, root edible, sometimes negative	Moderately beneficial
Typha angustifolia L. Narrow-Teaved cat-tail HABITAT: freshwater marshes	Statewide	Throughout	Соптоп	Moderate to high as food and cover for waterfowl and other aquatic	Aesthetic, root edible, sometimes negative	Moderately beneficial

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Typha domingensis Pers. Tule, cat-tail HABIAT: brackish and freshwater marshes and pools	Most of Texas	Florida to Texas, southern California, north along coast to Delaware and eastern Maryland, inland to Kansas, Utah, Nevada, and northern California	Солтоп	Moderate to high as food and cover, rootstocks used as food by fur and game mammals	Ornamental, sometimes negative	None
SPARGANIACEAE (bur-reed family)						
Sparganium androcladum (Engelm.) Morong. Bur-reed HABITAT: swamps and shallow streams	Eastern Texas	Eastern half of United States except Gulf coastal plain	Uncommon	Moderate value food for waterfowl	ŊĄ	None
Sparganium americanum Nutt. Bur-reed AABITAT: shallow water	Eastern Texas	Eastern half of United States, North Dakota	Uncommon	Moderate value food for waterfowl	NA	None
POTAMOGETONACEAE (pondweed family)						
Potamogeton pectinatus L. Sago pondweed HABITAT: alkaline, brackish, saline water of ponds, quiet rivers, marshes, and ocean shores	Statewide except perhaps the eastern timber belt and blackland prairies	Eastern half of United States	Совятол	High for waterfowl food and cover for other animal life	Aesthetic	None
Potamogeton pusillus L. Pondweed HABITAT: neutral or slightly alkaline or slightly brackish water of ponds and rivers	Statewide	Eastern half of United States	Соптол	High for waterfowl food and cover for other animal life	Aesthetic	None
Potamogeton diversifolius Raf. Pondweed HABITAT: pools, tanks, and small streams	Eastern Texas and Trans-Pecos	Southern United States	Continon	High for waterfowl food and cover for other animal life	Aesthetic	Slightly beneficial
Potamogeton pulcher Tuckerm. Pondweed HABITAT: muddy pools, boggy streams, lakes, occasionally in clear water in timber belt	Eastern Texas	Eastern half of United States	Соптоп	High for waterfowl food and cover for other animal life	Aesthetic	Moderately beneficial

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Potamogeton nodosus Poir. Longleaf pondweed HABITAT: streams and lakes	Statewide	Most of the United States	Common	High for waterfowl food and cover for other animal life	Aesthetic	Moderately beneficial
ZANNICHELLIACEAE (horned pondweed family)	amily)					
Halodule Beaudettei (den Hartog) den Hartog Horned pondweed HABITAT: salt water of bays	Texas coast	Along Atlantic coast to North Carolina	Comnon	Moderate for waterfowl food	Aesthetic	None
Cymodocea filiformis Kūtz.) Correll Manatec-grass HABITAT: shallov salt water of bays	Texas coast	Gulf coast from Florida to Texas	Сольном	High for waterfowl and mammal food, and cover for aquatic animals	Aesthetic	None
RUPPIACEAE (ditch-grass family)						
Ruppia maritima L. Widgeon-grass HABITAT: saline waters of pools, rivers, marshes; Gulf coast	Scattered statewide	Most of the United States	Cormon	High for waterfowl food	Aesthetic	None
"AJADACEAE (water- ymph family)						
Najas <u>quadalupensis</u> (Spreng.) Magnus Southern naiad HABITAT: ponds, lakes, streams	Statewide	Most of the United States	Common	High for waterfowl food	Sonetimes negative	Moderately beneficial
ALISMATACEAE (water plantain family)						
Alisma subcordatum Raf. Mud plantain HABITAT: shallow water of marshes, streams, ponds	Northeastern Texas and Panhandle	Eastern half of United States	NA	NA	ИА	Unknown
Echinodorus rostratus (Nutt.) Engelm. Burhead HABITAI: mud and shallow water about lakes, ponds, and along streams	Mostly in southern Texas, but sparingly throughout most of Texas	From Ontario, west to California and south to Florida, Texas, and Mexico	Uncormon	NA	NA	Slightly beneficial
Echinodorus cordifolius (L.) Griseb. Burhead HABITAT: mud and shallow water of ponds and quiet streams	Eastern Texas	From southeastern Virginia, Illinois, Missouri, and Kansas; south to Florida, Texas, and Mexico	Сопячол	NA	iiA	Slightly beneficial

			Abundance			Project Impact
	State Bange	United States Range	in Region	-	Other values	ביר זווומפרה
**Sagittaria montevidensis **Sagittaria montevidensis Cham. and Schlecht. Arrowhead HABITAT: shallow waters of lakes, ponds, sloughs	East-central and western lexas	0 •	Z.	High for waterfowl / food	Aesthetic	Slightly beneficial
**Sagittaria graminea Michx. Arrowhead HABITAT: rooted in mud or in shallow water of ditches, ponds, marshes, and streams	Eastern and south- central Texas	and leas Throughout eastern North America, west to the Great Plains	Соптоп	High for food; tubers, seeds, and plants food for marshbirds, water- fowl, and fur and game mammals	Aesthetic	Slightly beneficial
**Sagittaria platyphylla Engelm. Arrowhead HABITAT: rooted in mud or in shallow water of ditches, ponds, marshes, and streams	Eastern and south- central Texas	Missouri, west to Kansas, south to Texas and Alabama	Common	High for food; tubers, seeds, and plants food for marshbirds, water- fowl, and fur and game mammals	Aesthetic	Slightly beneficial
Sagittaria lancifolia L. Arrowhead HABITAT: freshwater and	Along streams in southeastern Texas	Southeastern United States	нA	High for waterfowl food	Aesthetic	Unknown
brackish tidal marshes, swamps Sagittaria papillosa Buch Arrowhead HABITAT: swamps, marshes, bogs, ditches, small ponds,	Eastern and southern Texas	Arkansas, Louisiana, and Texas	V:1	High for waterfowl food	Aesthetic	Slightly beneficial
and depressions in prairies **Sagittaria <u>latifolia</u> Willd. Duck-potato HABITAT: water or wet places	Southeastern to northern Texas	Throughout most of the United States and much of Latin America	Rare	High for food seeds eaten by marshbirds, seeds and tubers by waterfowl, and tubers by muskrats	Aerthetic, rook edible	Slightly beneficial
HYDROCHARITACEAE (frog's-bit family) Limnobium spongia (3osc.) Steud. Common frog's-bit HABITAT: shallow stagnant water of quiet lakes, ponds, lagoons, and ditches	/) Eastern Texas	Most of eastern half of United States	NA A	Sometimes ne _j ative	Aesthetic, sometimes negative	Slightly beneficial
Egeria densa Planch. Frog's-bit HABITAT: near lakes, ponds, pools, ditches, quiet streams	Central and eastern Texas	Introduced in scattered localities in United States, native of South America	U псо п по п	Sometimes negative	Aesthetic, sometimes negative	Slightly beneficial

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Species	State Range	United States Range	in Region	Wildlife Habitat	Other Values	Project Impact
Vallisneria americana Michx. Water-celery HABITAT: lakes and beds of flowing streams	Eastern half of Texas	Eastern hulf of United States	Rare	High for waterfowl food	йA	None
Thalassia testudinum König. Turtle-grass HABITAT: shallow salt water	Gulf coast	Florida to Texas	Abundant	High for fooc and cover, very productive of nu-trients and energy	Aesthetic	None
Halophila <u>Engelmannii</u> Asch. Halophila HABITAT: shallow salt water	Along coast	Gulf coast from Florida to Texas	Uncommon	NA	ПА	None
GRAMINEAE (grass family) **Arundinaria gigantea (Walt.) Muhl. Giant Cane HABITAT: moist soils rear low ground, ponds, and rivers	Eastern and south- eastern Texas	Southeastern United States	Соптпол	High for cover	High forage value for cattle	Moderately beneficial
** <u>Zizaniopsis</u> miliacea (Nichx.) <u>Doell and Asch.</u> Southern wildrice HABITAT: at edges of streams	Southeastern, eastern, north-central Texas, Edwards Plateau and northern Rio Grande plains	Coastal states, Maryland to Texas, north to Kentucky, Arkansas, and Oklaboma	Cormon	High for food, seeds eaten by waterfowl, song- birds, shorebirds, and muskrat	Hich fcrage value fcr cattle, slows ercsion	Slightly beneficial
Hydrochloa caroliniensis Beauv. Carolina hydrochloa HABITAT: ponds, lakes, and slow flowing streams	Eastern Texas	Coostal states, North Carolina to Texas	Pare	кA	H.A.	Slightly beneficial
**Leersia lenticularis Michx. Catchfly grass HABITAT: sloughs, bayous, and marsky prairies	Eastern and southeastern Texas	Maryland to Minnesota, south to Gulf states	Cormon	Moderate for food, seeds eaten by waterfowl and marshbirds	NA NA	Slightly beneficial
**Lecrsia oryzoides (L.) Sw. Rice cutgrass HABITAT: near and along creeks	Eastern half of Texas	Most of United States	Соттол	Moderate for food, seeds and root- stock eaten by waterfowl, seeds by marshbirds and songbirds, plants	NA ,	None
**Leersia hexandra Sw. Leersia HABITAT: near creeks, rivers, and resacas	Eactern and south- eastern Texas, coastal parts of Rio Grande plains	Southeastern United States	Uncommon	Moderate for food, seeds eaten by waterfowl and songbirds	NA	None
**Leersia virginica Willd. White grass HABITAT: swamps and bogs	Eastern, south- eastern, and north-central Texas	Eastern United States	Rare	НА	¥.	None

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			Abundance	Use for	Other Values	Project Impact
Species	State Range		ın Kegion	112 -L Food value	Himan and	Slightly
Oryza sativa L. Rice HABITAT: irrigated crops,	South-central and southeastern Texas	Texas, north to Virginia and Gulf states	Conmon	High Took Value, summer and resting cover for mottled ducks and teal	livestock foch	beneficial
muddy and seasonally flooded areas **Phragmites communis Trin. Common reed HABITAT: marshes, seeps,	Scattered throughout Texas	Most warmer areas	Very abundant	Moderate for muskrat f ood, grazing potential when immature,	Aesthetic, medium forage value, sugar producer	Moderately beneficial
**Arundo Donax L. Giant reed HABITAT: near lakes and rivers, sand bars and	Southeastern and central Texas, adventive	Widespread in warmer areas, native to 01d World; planted to control erosion along	Соптоп	Moderate for cover	Erosion control	Moderately beneficial
levees **Danthonia spicata (L.) Beauv. Danerty natariss	Eastern Texas	Eastern half and northwestern United	Uncommon	ия	AH.	None
**Chasmanthium latifolium (Michx.) Yates Inland sea oats	Eastern and southeastern Texas	States Southeastern United States	Conmon	Moderate for food	AK	None
**Chasmanthium sessiliflorum (Poir.) Yates Chasmanthium Chasmanthium	Eastern and southeastern Texas	Southeastern United States, north to Virginia, Tennessee, Missouri, and	Common	пА	Moderate forage value	None
**Chasmanthium laxum (L.) Yates Chasmanthium HABITAT: moist sandy soils	Eastern and southeastern Texas	Oklahoma Southeastern United States, north to Long Island, Kentucky, Missouri, and Oklahoma	Uncommon	A	A	None
Parapholis incurva (L.) C.E. Hubb Sicklegrass HABITAT: brackish shores and	Coastal southeastern Texas, southwest to San Patricio County	Widely established in coastal areas of North America, native of Europe	Common h	A	NA	o o o o

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Stipa avenacea L. Blackseed needlegrass HABITAT: sandy soils in forests	Eastern Texas	Massachusetts to Michigan and south- west to Texas	Сопинол	Seed eaten by songbirds and small mammals, plants by hoofed browsers	i	Slightly adverse
**Stipa leucotricha Trin. and Rupr. Texas speargrass HABITAT: disturbed areas, usually calcareous soils	North-central Texas and Edwards Plateau	Oklahoma to Mexico	Uncommon	NA	Gocd forage value	None
**Melica mutica Walt. Two-ffower milic-grass LABITAT: forest on sandy soil	Eastern Texas	Southeastern United States	Uncommon	Low for food, seeds eaten by birds, plants by grazers and browsers	VI.	Slightly adverse
Glyceria septentrionalis Hitchc. Hanna-grass HABITAI: narsh areas and roadwise ditches	Eastern and south- eastern Texas	Eastern North America west to Hisconsin, Iowa, Missouri, Arkansas and Texas	Ur conmon	yı:	N.	None
Gronus pubescens Muhl. Chess HABITAT: usually on moist banks	Eastern and north- central Texas	Eastern half of United States	Сопиюл	NA	٧	None
**bronus commutatus Schrad. Erone HABITAT: NA	Eastern and north- central Texas, plains country, and Edwards Plateau	Eurasias introduced and a volunteer in scattered parts of North America	Uncommon	Moderate for food, seeds little used for food by wildlife	IA .	None
**Bromus japonicus L. Japanese chess HABITAT: HA	Statewide in scattered localities	Entire United States	Сопилол	Moderate for food, seeds eaten by gamebirds, plants eaten by small marmals and deer	Sometimes negative as weed	None
**Bromus unioloides H.B.K. Rescue grass HABITAT: roadsides, lawns, gardens	Statewide	Most of United States, native of South America	Соптоп	High for food, seeds eaten by many birds and mammals, plants eaten by deer	High for forage, sometimes negative as	None
**Bronus tectorum L. Downy chess HABITAT: roadsides and pastures	Plains, Trans-Pecos, Edwards Plateau and eastern to north- central Texas	Pacific Coast, scattered though United States, south to Virginia, Mississippi deras	Conmon	Young plants eaten by geese and grazing animals, seeds eaten by variet of birds and	NA NA	None

Charius	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Festuca obtusa Biehler Nodding Fescue HABITAT: scarce in woods	Eastern Texas	Central United States	Rare	Moderate for food, seeds eaten by birds	NA	None
<u>Festuca paradoxa</u> Desv. Fescue HABITAT: NA	Eastern Texas	Most of eastern United States	Uncommon	Moderate for food, seeds eaten by birds	NA	None .
Festuca elatior L. Meadow fescue HABITAT: cultivated, roadsides	Eastern and southeastern Texas	Cultivated in United States, native of Eurasia	Rare	Moderate for food, seeds eaten by birds	High for grazing	None
**Vulpia octoflora (Walt.) Rydb. Six-weeks fescue HABITAT:	Through most of Texas	Temperate North America	Соптол	Moderate for food, seeds eaten by birds	NA	None
Vulpia Elliotea (Raf.) Fern. HABITAT: open woods on sandy soil	Eastern Texas and northern Rio Grande plains	Coastal states from New Jersey to Texas	Uncommon	Moderate for food, seeds eaten by birds	IIA	Slightly a tverse
Vulpia mecalura (iutt.) Rydb. Foxtail fescue HABITAT: disturbed roadsides in sandy soil	Eastern Texas	Most of United States	Rare	Moderate for food, seeds eaten by birds	ZIA	None
**Lolium perenne L. Ryegrass HABITAT: lawns and disturbed areas	Most of State	Widely introduced in temperate parts of North America and South America	Conmon	Moderate for food, seeds eaten by birds	Good forage value, quick soil cover	None
Catapodium rigidum (L.) C.E. Hubb. Catapodium HABITAT: local in disturbed areas	Eastern, southeastern and north-central Texas and eastern part of Edwards Plateau	Introduced from Eurasia in scattered areas of North America	Locally common	иА		None
**Po <u>a autumnalis</u> Ell. <u>Bluegrass</u> HABITAT: rich woods	Eastern and southeastern Texas	Eastern and southern United States, north to Pennsylvania and Michigan, west to Illinois, Arkansas and Texas	Uncommon	Moderate for food, songbird and rodent food, seeds and leaves used by grazers and browsers	High for livestock grazing s	None
Poa sylvestris Gray HABITAT: rich woods	Eastern Texas	Most of eastern United States	Rare	Moderate for food	NA	None
**Poa annua L. Bluegrass HABITAT: city lawns and flowerbeds, rich woods	Eastern, southeastern and north-central Texas and Edwards Plateau	Widely established in temperate North America, native of Europe	Common	Moderate for food, songbird and rodent food, seeds and leaves used by grazers and browsers	High for livestock grazing	None

	Ctato Dance	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Briza minor L. Little quaking grass Little swales, woods, or one sandy soil	Eastern and southeastern Texas	Widely introduced in United States, native of Europe	Uncommon	NA	NA	Slightly adverse
**Elymus canadensis L. Canada Wild-rye HABITAT: on wooded slopes	Most of state	Most of temperate North America	Control	High for food	High grazing value, ornamental	85: دون
**Elymus virginicus L. Virginia wild-rye HABITAT: moist soils in	Eastern, southeastern, and north-central Texas	Eastern United States	Common	High for food for wildlife, grazed by deer	Readily grazed by livestock, soil cover	None
**Hordeum pusillum Nutt. Little barley HABITAT: NA	Scattered throughout most of state	Hearly all states except New England	Abundant	Moderate for food, seeds eaten by birds and small rammals	нл	None
**Hordeum vulgare L. Barley HABITAT: NA	Few scattered volunteer plants	Introduced from Old Morld, now cultivated widely	Rare	High for food, seeds eaten by birds and mammals	High for human food	None
**Triticum <u>aestivum</u> L. Wheat HABITAT: along roadsides	Wheat growing areas	Central United States	Uncommon	High for food, seeds valuable food for birds and small mammals	High human food value	None
**Sphenopholis longiflora (Vascy) Hitchc. Wedgegrass HABITAT: streamside forests on sandy soil	Eastern and southeastern Texas	Texas, Arkansas and probably Louisiana	Uncommon	МА	NA A	Slignoly a lverse
Sphenopholis nitida (Biehler) Scribn. Wedgegrass HABITAT: deep forests on sandy soil	Eastern Texas	Eastern half of United States	Uncolmion	NA	NA NA	Slightly adverse
**Sphenopholis filiformis (Chapm.) Hitchc. Wedgegrass HABITAT: pine woods on sandy soil	Eastern and southeastern Texas	Coastal states, Virginia to Texas; also Arkansas and Tennessee	Uncommon	NA	VI I	None

	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Sphenopholis intermedia (Rydb.) Rydb. Wedgegrass HABITAT: heavily wooded moist banks	Extrome eastern Texas	Most of United States	Rare	NA	иА	None
**Sphenopholis obtusata (Michx.) Scribn, Prairie wedgescale HABITAT: moist areas	Statewide	Most of United States	Соптоп		ИА	Slightly beneficial
**Aira elegans Gaud. Annual hairgrass HABITAT: NA	Eastern Texas	Coastal states, Maryland to Texas; also Arkansas, California, and Oregon	Ипсонтоп	ИА	ИА	None
**Avena fatua L. Oats HABITAT: disturbed areas	East-central Texas	Widely introduced in United States, native of Europe	Locally common	High for food for many birds and small mammals, very high for winter green forage, grazing	High for human food, medium forage, winter variety high for grazing	Slightly beneficial
Agrostis <u>Elliottiana</u> Schult. Bentgrass HABITAT: sandy soils, fields, roadsides, and other openings in forested areas	Eastern Texas	Southeastern United States	Locally abundant	HA M	Ground cover	None
**Agrosifs hyeralis (Walt.) B.S.P. Spring bentgrass HABITAT: moist sandy soil, roadsides, and other open places	Statewide except western plains country	Eastern half of United States	Сопиол	Moderate for food, seeds eaten by biards	Ground cover	None
Agrostis scabra Willd. Bentgrass HABITAT: moist areas, openings in forests, at elevation of 6,000-8,3000 feet	Probably native in Trans-Pecos mountains, scattered in Dallas, Hardin, and Harris Counties	Moist cool areas of North America	Conmon	ИА	NA	None
**Agrostis perennans (Walt.) Tuckerm. Autumn bentgrass HABITAT: moist sandy soils along streams	Eastern Texas	Eastern United States west to Nebraska and Texas	Uncommon	Seeds and plant moderate for food	Special varieties for lawns, turfs	None
**Agrostis stolonifera L. Redtop bentgrass HABITAT: wet meadows, stream barks	Statewide except southern Texas	Widely introduced in United States, native of Eurasis	Солтол	Moderate for food, seeds eaten by some songbirds, plants eaten by rabbits	High for hay, grazing; used for lawns, turfs; erosion	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Agrostis palustris Huds. Creeping bentgrass HABITAT: along fresh-water shores	Southeastern Texas	Widely introduced in United States, native of Eurasia	Uncommon	IIA	NA	Slightly beneficial
**Polypogon monspeliensis (L.) Desf. Rabbitfoot grass HABITAT: moist soil near fresh water	Statewide	Eastern United States	Uncommon	NA A	RA	Slightly beneficial
Cinna arundinacea L. Stout woodreed HABITAT: moist usually sandy soil, flood plains, and stream banks	lastern Texas	Eastern United States	Unconmon	iiA	NA	Slightly beneficial
**Limnodea arkansana (Nutt.) L.H. Dewey Ozark grass HABITAT: loamy sandy soils in prairies and disturbed areas	Eastern half of Texas	Gulf coastal plains	Сонинов	Low for food, eaten by turkey	Ground cover	None
**Alopecurus carolinianus Walt. Foxtail HABITAT: moist soil near ponds, streams, wet meadows	Eastern, south- eastern, and north- central Texas	Eastern United States, also Washington, and Oregon	Un common	High for food, seeds eaten by songbirds and waterfowl	м К	Moderately beneficial
**Phalaris canariensis L. Canary grass HABITAT: loamy garden soils	Central and eastern Texas	Widely introduced and naturalized in cool- temperate parts of America, native to Mediterranean region	Uncomion	Moderate for food, seeds and plants eaten	High for grazing forage	None
**Phalaris caroliniana Walt. Canary grass HABITAT: loamy usually alluvial soils near creeks, in distrubed soils along roadsides and in fallow fields	Statewide	Virginia to Oklahoma and south to Gulf States; also Oregon, California, southern Nevada, Arizona, and New Mexico, south to northern Mexico	Abundant	Moderate for food, minor use of seeds for food by upland gamebirds and songbirds	High for grazing and forage	None
Phalaris angusta Trin. Canary grass HABITAT: moist loamy soils near ditches, creeks, and bayous	Southeastern Texas	South-central and southwestern United States	Abundant	Moderate for food, seeds and plants eaten	High for grazing and forage	None

Sperior	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Anthaenantia rufa (Ell.) Schult. Anthaenantia HABITAT: savannahs and sandy woodlands	Eastern and southeastern Texas	Coastal states from North Carolina to Texas	Uncommon	NA	NA	None
Anthaenantia villosa (Michx.) Beauv. Anthaenantia HABITAT: sandy woodlands and savannahs	Eastern and southeastern Texas	Coastal states, North Carolina to Texas	Rare	яя	Indicator of good range conditions, readily grazed by cattle	None
** <u>Pigitaria sanguinalis</u> (L.) Scop. Horthern crabgrass HABITAT: disturbed soil, along roads, fields, gardens	Statewide except southern Texas	Scattered in United States	Uncommon	High for food, seeds eaten by mourning dove and turkey, very important food for some songbirds; plants eaten by rabbits	High for grazing and forage, nuisance in lawns	None
**Digitaria adscendens (H.B.K.) Henr. Southern crabgrass HABITAT: distrubed loamy soils along roads, in fields and gardens	North-central, eastern, and south- eastern Texas	North to Virginia and Gulf states	Сопинол	High for food, seeds eaten by gamebirds and songbirds, plants by rabbits, deer	High for grazing and forage, nuisance in lawns	None
**Digitaria diversiflora Swall. Tropical crabgrass HABITAT: disturbed, loose soil along roads, fields, gardens, overgrazed prairies	Rio Grande plains	Tropical American lowlands north to Cuba, Texas, and Sonora	Сонинол	High for food; seeds eaten by gamebirds and songbirds; plants by rabbits, deer	High for grazing and forage, nuisance in lawns	None
Digitaria serotina (Walt.) Michx. Owarf crabgrass HABITAT: sandy soils	Eastern Texas	Coastal states, Pennsylvania to Texas	Rare	High for food, seeds eaten by gamebirds and songbirds, plants by rabbits, deer	High for grazing and forage, nulsance in lawns	None
Olgitaria <u>violascens</u> Link Crabgrass HABITAT: disturbed openings in pine forest	Eastern and southeastern Texas	Gulf states	Uncorason	High for food, seeds eaten by gamebirds and songbirds, plants by rabbits, deer	High for grazing and forage nuisance in lawns	None
Digitaria <u>filiformis</u> (L.) Koel. Crabgrass HABITAT: forest openings	Eastern and southeastern Texas	Southeastern United States	Conmon	High for food; seeds eaten by gamebirds and songbirds; plants by rabbits, deer	High for grazing and forage, nuisance in lawns	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Leptoloma cognatum (Schult.) Chase Fall witchgrass HABITAT: loose sandy prairie, sandy coastal plain	Statewide	West to Arizona, New Hampshire to Minnesota, south to Florida and Texas	Abundant	N A	Y.	None
Eriochloa <u>punctata</u> (L.) Desv. Cupgrass HABITAT: tight loamy moist soil near ponds or seasonally muddy areas	Southeastern Texas and coastal parts of Rio Grande plains	Louisiana, and Texas	Сонтол	Grazing near water	Local protein source near ponds	Slightly beneficial
**Eriochloa contracta Hitchc. Prairie cupgrass HABITAT: tight loamy usually seasonally moist soil near swales in prairies and at edges of fields and road- sides	Southeastern Texas and Rio Grande plains	Central United States	Сопипол	Grazing and browsing	Local protein source for birds in low areas	None .
**Eriochloa sericea (Scheele) Munro Cupgrass HABITAT: well-drained prairies, rocky slopes	North-central Texas and eastern plains, south to Rio Grande plains	Texas and Oklahoma	Uncommon	Seeds eaten by quail; grazing, browsing	High forage value, range indicator	None
**Brachiaria ciliatissima (Buckl.) Chase Fringed signalgrass HABITAT: sandy prairies	Rio Grande plains, southern part of southeastern Texas	South-central Oklahoma, and Texas	Conmon	Moderate grazing ("buffalo grass")	Nondescript ground cover	None
**Brichiaria platyphylla (Griseb.) Hash Broadleaf signalgrass HABITAT: in disturbed loamy soil in fields, gardens, along roads, and in ditches	Eastern and south- eastern Texas and Rio Grande plains	Georgia, Florida, Missouri, Texas, Arkansas, Louisiana, and Cuba	Uncommon	Ν	Consolidates disturbed soils	None
Axonopus furcatus (Flugge) Hitchc. Carpet grass HABITAT: moist sand	Eastern and southeastern Texas	Coastal states, Virginia to Texas	Uncommon	Grazing by deer	Cover for recreational areas	None
Axonopus compressus (\$w.) Beauv. Carpet grass HABITAT: moist sand	Southeastern Texas	Florida, Texas, and Louisiana	Rare	Year round grazing	Campgrounds and parking lots	None
**A <u>xonopus affinis</u> Chase Carpet grass HABITAT: moist sand, openings in forests, roadsides	Eastern and southeastern Texas	Narmer parts of America, north to North Carolina, Gulf States, Arkansas, and Oklahoma	Соптол	Grazing, food for ducks	Fair forage value, used in recreational areas for sod	Slightly adverse

Contac	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Paspalum monostachyum Vasey Paspalum HABITAT: sandy prairies	Southeastern Texas and parts of Rio Grande plains	Florida, Louisiana and Texas	Contenon	Low for food, seeds eaten by birds	Low to moderate for forage	None
**Paspalum Langei (Fourn.) Nash Paspalum HABITAT: loamy soils, often shaded, woods in stream bottoms	Coastal plains	Gulf coastal plains	Соммол	Moderate for browsing	NA	Slightly adverse
**Paspalum setaceum Michx. Thin paspalum HABITAT: sandy soil	Statewiderare in Trans-Pecos and Edwards Plateau	Eastern half of United States	Abundant	Moderate for browsing	Fair forage value	None
Paspalum bifidum (Bert.) Nash Paspalum HABITAT: in moist acid bogs and open woods	Eastern Texas	Coastal states from Virginia to Texas, inland to Arkansas and Oklahoma	Rare	Moderate as seeds for bir∉s	Moderate for pastures	None
**Paspalum floridanum Michx. Paspalum HABITAT: moist, well- drained soils	Eastern, southeastern, and northern Texas	Southeastern United States	Conmon	Moderate forage value, sceds caten by birds	Readily grazed by cattle, soil cover	None
**Paspalum plicatulum Michx. Brownseed paspalum HABITAT: sandy loam prairies and open woods	Southeastern and eastern Texas and coastal part of Rio Grande plains	Widespread in warmer parts of America, north to Georgia and the Gulf states	Common	Moderate for food, quail and ducks eat seeds	Grazed by livestock, sofl cover	None
Paspalum Boscianum Flügge Bull paspalum HABITAT:	Reported to occur in East Texas	Southeastern United States	Rare	NA	Moderate for pastures	None
**Paspalum Urvillei Steud. Vasey grass HABITAT: loamy, disturbed, usually very moist soil	Eastern, southeastern, and northern Texas	Southeastern coastal plain, California	Rare	Moderate for food, plants and seeds food for a variety of birds	Soil cover, moderate for pastures	None
Paspalum <u>dilatatum</u> Poir. Daillis grass HABITAT: loamy disturbed soils	Fastern, south- eastern, and north- central Texas	Widely distributed in warmer areas, native of South America	Abundant	Forage and grazing	Nuisance in lawns	None
**Paspalum laeve Michx. Paspalum HABITAT: sandy loam, prairies, open forest	Eastern and southeastern Texas	Much of eastern half of United States	Unconmon	¥¥.	May be moderate for pastures	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Paspalum praecox Walt. Paspalum HABITAT: sandy loam, open pine flats	Southeastern Texas	Southeast and Gulf coastal states	Uncommon	Moderate for browsing	นด	None
Paspalum lividum Trin. Longtom HABITAT: moist tight clay loam in ditches, tanks, resacas, and shallow lakes	Southeastern Texas and coasca! Rio Grande plains	Southeastern United States	Comnon	Low for food, seeds occasionally eaten by ducks, food for variety of birds	Summer forage and may plant	Slightly heneficial
**Paspalum pubiflorum Fourn. Hairyseed paspalum HABITAT: moist loam and calcareous soil, at edges of streams and lakes	Statewide	Southeastern United States	Сопипоп	Moderate for food, seeds eaten by gamebirds and songbirds, plants are eaten by rabbit and deer	Moderate for pasture	Slightly beneficial
Paspalum distichum L. Knotgrass HABITAT: margins of fresh ponds, streams, lakes tolerates moderate salinity	Eastern, south- eastern, and north- central Texas, Ed <i>a</i> ards Plateau	North to New Jersey, Tennessee, Arkansas, Oklahome, Utah, Idaho and Washington	Cormion	Moderate for food, waterfowl food, moderate forage quality, food for variety of birds	Readily grazed by cattle and horses, shore- line cover	Moderately beneficial
Paspalum vaginatum Sw. Paspalum grass HABITAT: moist saline to brackish sands at edges of lagoons, bays, and river mouths	Coastal southeast Texes and Rio Grande	Southeastern United States	Соптол	Low for food, green feed for wild geese	Indicator of moderate salinity, important livestock forage plant	None
**Paspalum acuminatum Raddi Paspalum HABITAT: lowlands	Southern and coastal Texas	Southern Louisiana and southern lexas	Uncormon	Moderate for food, seeds eaten by birds, plants eaten by small mammals and deer	Moderate for pastures	None
Paspalum dissectum (L.) L. Paspalum grass HABITAT: forming mats at the margins of seeps, bogs, and lakes	Eastern Texas	Lowlands of southern United States	Uncommon	Seeds eaten occassionally by ducks	Moderate for pastures	Slightly beneficial
**Paspalum fluitans (Ell.) Kunth. Faspalum HABITAT: fresh water	Southeastern Texas	Southeastern and south-central United States		May be utilized by aquatic animals	Slight grazing at water's edge	Slightly beneficial

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Paspalum notatum Flügge Bahia grass HABITAT: sandy loam, openings in forest, usually on roadsides	Eastern Texas	Warmer parts of America; introduced from Cuba and Mexico; persistent in Gulf states	Uncommon	NA	Low pasture value	None
Paspalum minus Fourn. Paspalum grass HABITAT: loamy soil in coastal prairies	Southeastern Texas, rare where probably introduced	Texas and South America	Rare	NA	Moderate for pastures	None
Panicum depauperatum Muhl. Panic grass HABITAT: gravelly slopes in pine-oak woodlands	Eastern Texas	Eastern United States	Rare	High for food for variety of wildlifeincluding quail	ИА	None
Panicum linearifolium Scribn. Panic grass HABITAT: frequent on dry gravelly or sandy slopes	Eastern Te. s	Eastern United States	Сопчпол	High for food for variety of wildlifeincluding quail	NA	None
**Panicum laxiflorum Lam. Panic grass HABITAT: sandy woodlands	Southeastern, eastern, and north- central Texas	Southeastern United States	Соттоп	Seeds eaten by wildlifeincluding quail	₩.	None
Panicum angustifolium Ell. Panic grass HABITAT: sandy woodlands	Eastern and southeastern Texas	Southeastern United States	Солипоп	High for food for variety of wildlifeincluding quail	iiA	None
Panicum aciculare Poir. Panic grass HABITAT: sandy soil	Scattered in eastern and southeastern Texas	Soutneastern United States	Uncommon	High for food for variety of wildlifeincluding quail	Reduce erosion	None
**Panicum dichotomum L. Panic grass HABITAT: moist sandy woodlands	Eastern and southeastern Texas	Eastern United States	Соптоп	High for food; seeds eaten by variety of birds, including quail; foliage eaten by rabbits and deer	ия	None
Panicum leucothrix Nash Panic grass HABITAT: sandy woodlands, often in boggy or moist Iow places	Eastern and southeastern Texas	Coastal states, Massachusetts to Texas	Unconmon	High for food for variety of wildlifeincluding quail	NA	None
**Panicum Lindheimeri Nash Panic grass HABITAT: calcareous soils	Eastern half and central Texas	Eastern half and southwestern United States	Соттол	Seeds eaten by wildlife	Pasturage	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Panicum lanuginosum Ell. Panic grass HABITAT: sandy woodlands and prairies	Eastern half of Texas	Eastern half of United States	Соптоп	High for food for variety of wildlifeincluding quail	NA	None
Panicum villosissimum Nash Panic grass HABITAT: sandy woodlands	Eastern, south- eastern, and north- central Texas	Eastern half of United States	Uncommon	High for food for variety of wildlife including quail	NA	None
Panicum portoricense Hamilt. Panic grass HABITAT: sandy woodlands	Eastern and south- eastern Texas	Coastal states, Virginia to Texas	Rare	High for food for variety of wildlife including quail	NA NA	None
Panicum tenue Muhl. Panic grass HABITAT: infrequent or locally abundant in sandy soil	Eastern and south- eastern Texas	Southeastern United States	Unconmon	High for food for variety of wildlifeincluding quail	Moderate for pastures	None
Panicum <u>sphaerocarpon</u> Ell. Panic grass HABITAT: sandy or gravelly soil	Eastern, southeastern, and north-central Texas, and coastal Rio Grande planns	Southeastern United States	Common	High for food for variety of wildlifeincluding quail	Moderate for pastures	None
Panicum polyanthes Schult. Panic grass HABITAT: sandy woodlands	Eastern Texas	Southeastern United States, north to Connecticut, Pennsylvania, Missouri and Oklahoma	Uncommon	High for food for variety of wildlifeincluding quail	н 1	None
**Panicum malacophyllum Nash Panic grass HABITAT: sandy woodlands	North-central Texas	Southeastern United States	У псонтоп	High for fcod; seeds eaten by variety of birds including quail; foliage eaten by rabbits and deer	NA	None
**Panicum <u>oligosanthes</u> Schult. Panic grass HABITAT: sanuy soils, variety of habitats	Statewide	Most of United States	Abundant	High for food; seeds eaten by variety of birds including quail; foliage eaten by rabbits and deer	Pasturage	None
**Panicum scribnerianum Mash Scribner panicum HABITAT: strong acid to mildly alkalide clays; moist, well drained fertile soils	Statewide	Southern and southeastern United States	Common	High for food; deer eat green leaves, birds eat seeds; food for variety of wildlife	Some grazing value, soil cover	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Panicum Ravenelii Scribn. and Merr. Panic grass HABITAT: sandy woodlands	Eastern and southeastern Texas	Southeastern United States	Сонтоп	High for food; seeds eaten by variety of birds including quail, foliage eaten by rabbits and deer	NA	None
Panicum latifolium L. Panic grass HABITAT: infrequent in sandy woodlands	Eastern and southeastern Texas	Eastern United States	Uncommor	High for food for variety of wildlifeincluding quail	ия	None
Panicum scoparium Lam. Panic grass HABITAT: sandy woodlands in moist or even boggy areas	Eastern and southeastern Texas	Southeastern United States	Unc ommon	High for food for variety of wildlifeincluding quail	IIA	Slightly beneficial
**Panicum geminatum Forsk. Panic grass HABITAT: moist ground or shallow water	Eastern half of Texas	Gulf coastal plain	Locally common	Forage for aquative ma _r mals	11A	Slightly beneficial
Panicum reptans L. Panic grass HABITAT: usually in disturbed areas	Southeastern, eastern, north- central Texas, and Rio Grande plains	Florida to Texas	Uncommon	High for food for variety of wildlifeincluding quail	Soil stabilization	None
Panicum gymnocarpon Ell. Panic grass HABITAT: local in wet sand along streams	Eastern and southeastern Texas	Coastal states, South Carolina to Texas, inland to Arkansas	Locally common	High for food for variety of wildlifeincluding quail	Bank stabilizat∶on	None
**Panicum hemitomon Schult. Maidencane HABITAT: fresh marshes	Eastern and southeastern Texas	Coastal United States	Conmon	High for plant food for variety of wildlife	High forage, hay	Slightly beneficial
**Panicu obtusum H.B.K. Vine-mesquite HABITAT: frequently forming large colunies near water	Western half and eastern to north- central Texas, and coastal bend area	Missouri tc Colorado, south to Arkansas and central Mexico	Соптоп	Seeds are eaten by quail and doves	Erosion control; cut for hay and grazed	Sliahtly beneficial
**Panicum brachyanthum Steud. Panic grass 4ABITAT: sandy woodlands	Eastern and southeastern Texas	Arkansas, Louisiana, Oklahoma, and Texas	Соптоп	High for food; seeds eaten by variety of birds including quail, foliage eaten by rabbits and deer	VN V	Slightly adverse

Socions	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Panicum verrucosum Muhl. Panic grass HABITAT: sandy woodlands	Eastern, south- eastern, and north- central Texas	Eastern half of United States	Соптоп	High for food; seeds eaten by variety of birds including quail, foliage eaten by rabbits and deer	N	Slightly adverse
**Panicum hians Ell. Fanic grass HABITAT: low places, damp	Eastern half of Texas	Southeastern coastal plain	Contriion	Seeds eaten by wildlife	ид	Slightly beneficial
**Panicum anceps Michx. Panic grass HABITAT: sandy, well- crained forested uplands	Eastern and southeastern Texas	Southeastern United States	Abundant	High for food; seeds eaten by variety of birds including quail, foliage eaten by rabbits and deer	iiA	Slightly adverse
**Panicum rigidulum Rees Panic grass HABITAT: moist or poorly Grained areas	Eastern and southeastern Texas	Eastern United States	Abundant	High for food; seeds eaten by variety of birds including quail, foliage eaten by rabbits and deer	na na	None
Panicum tenerum Beyr. Panic grass HABITAT: wet places	Eastern and southeastern Texas	Coastal States, North Carolina to Fexas	Rare	NA	ПА	None
Panicum anarulum Hitche. and Chase Beach panic HABIIAT all along the Gulf beach in loose dune sand	Gulf beaches	New Jersey to Mexico beaches	Соляпон	Seeds for sand dune fauna	Dune stabilization	None
**Panicum virgatum L. Switchgrass [HABITAT: growing in deep, saline clays or stratified clay-loam; moist open places; highly calcareous soils or wet acid soils; sandy ridge: or brackish marshes	Statewide	Ontario to Wyoming, south to Gulf states	Common	High for cover and food for wide variety of wildlife including quail	High forage value, hay value, ornamental	None
Panicum <u>pilcomayense</u> Hack. Panic grass HABITAT· coastal areas	Southeastern and south in coastal areas to Rio Grande delta	Texas and South America	Locally common	Food for a variety of wildlife	iia	None

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Species	State Range	Initod Ctatoo	Abundance	Use for		
	2000 2200	on ted states range	in kegion	Wildlife Habitat	Other Values	Project Impact
**Panicum capillare L. Witchgrass HABITAT: disturbed ground	Western three-fourths of Texas	Most of the United States	Uncommon	High for cover and food for	Moderate for forage	None
				wide variety of wildlife.		
Danicim thilladolahiom Tair				including quail		
Fanic grass HABITAI: rare in sandy and gravelly soils	tastern and north- central Texas	Most of the eastern United States	Rare	Food for a variety of wildlife	Soil stabilization	None
Fall panic HABITAT: moist ground and disturbed soil	Eastern half of Texas	Nova Scotia, Maine to Minnesota, south to Florida and Texas	Common	Seed eaten by variety of birds, foliage eaten by small mammals and hoofed browsers	Soil cover	None
**Danie + Comment Ducks						
Texas millet fexactoring fexactions and the fexaction of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the feature of the featu	Eastern two-thirds of Texas	Texas, Oklahoma, Mississippi, Florida, south	Common	High for cover and variety of wildlife	Soil and ground cover	None
STIDS KNIBS		to Mexico		•		
**Panicum fasciculatum Sw. Browntop panic grass HABITAT: frequent in disturbed ground	Throughout most of Texas	Warmer parts of America, morth to Florida and Texas	Сотнол	Seeds eaten by waterfowl, song- birds, marshbirds,	Soil and ground cover	None
**Sacciolepis striata	Factory and	104140		upranta gamentras		
(L.) Nash Sacciolepis HABITAT: infrequent in bogs, marshes, and moist sand near streams	southeastern Texas	coastal states, New Jersey to Texas	Uncommon	W.	Bank stabilization	None
**Oplismenus hirtellus (L.) Beauv. Oplismenus HABITAT: shady moist loam	Eastern, south- eastern Texas, Rio Grande plains	Southeastern coastal plains	Uncommon	Seeds for moisture dependent animals	Bank stabilization	Slightly adverse
	•					
(L.) Link Jungle-rics HAB!TAT: moist, often disturbed loamy soil	Statewide	Temperate United States	Соптол	High value for waterfowl food	Sœil reclamation	None

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			Abundance			4
	00000	United States Kange	in Region	wilalife maditat	Other Values	Project impact
<pre>species **Echinochloa crusgalli (L.) Beauv Barnyard grass</pre>	Mearly throughout the state		Common	Seeds high value food for waterfowl. marshbird, upland gamebird, songbird	VN	None
HABITAT: moist loamy soil Echinochloa cruspavonis (H.B.K.) Schult. Echinochloa	Southeastern Texas	ern United	Uncontron		Bank stabilization	Moderately beneficial
HABIIAI: marsny maryins of streams and lakes **Echinochloa Walteri (Pursh) Heller Echinochloa HABITAI: margins of streams	Eastern and southern parts of north- central Texas	Wisconsin, Virginia, South Carolina, Arkansas, Louisiana, and Texas	Uncommon	High for food; seeds eaten by waterfowl, marsh- birds, upland and songbirds; foliage eaten by muskrats and rabbits	Bark stabilization	Moderately adverse
Setaria <u>magna</u> Griseb. Setaria HABITAT: infrequent in	Southeastern Texas	Coastal states, וויש Jersey to Texas	Uncormon	Seeds are songbird and quail food	Aesthetic	None
**Setaria geniculata (Lam.) Beauv. Setaria staria staria disturbed areas	Statewide	Southwestern and southeastern United States	Cormon	Seeds eaten by ducks, marshbirds, v gamebirds, song- birds and small mammals; foliage by rabbit and muskrats	Fair forage value	None
Setaria glauca (L.) Beauv. Yellow foxtall HABITAT: high marsh plant	Statewide except the Rio Grande plains and plains	Temperate North America	Uncommon	Marshbirds, quail, and songbird food	Aesthetic	None
Cenchrus echinatus L. Cadillo HABITAT: infrequent weed	country Rio Grande plains, rare in southeastern Texas	Coastal states, North Carolina to Texas	Uncommon	Infectious to some animals	Poisonous when mixed with hay	None
in disturbt.i areas **Cenchrus incertus M.A. Curtis Coast sandbur HABITAT: sandy or tighter soils, disturbed areas	Statewide, abundant in southeastern and north-central areas	Coastal states, Virginia to Texas, inland to Arkansas, Oklahoma, New Mexico, Arizona, and	Abundant	Low for food; slight use for food by songbirds, hoofed browsers	Seasonal livestock grazing, but may be poisonous	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Denier fact
**Erianthus strictus Baldw. Narrow plumegrass HABITAT: moist, sandy places	Eastern and southeastern Texas	Southeastern United States	Rare	Slight for grazing animals	Soil stabilization	None
Erianthus contortus Baldw. Bent-awn plumegrass HABITAT: rare in moist sandy places	Eastern and southeastern Texas	Southeastern United States	Rare	Slight for grazing animals	Grazed by cattle and horses	None
<pre>Erlanthus alopecuroides (L.) Ell. Silver plumegrass HABITAT: sandy woodlands, usually near water</pre>	Eastern and southeastern Texas	Missouri and Oklahoma, south to Gulf states	Uncommon	NA	Soil stabilization	Slightly beneficial
**Erianthus giganteus (Walt.) Muhl. Sugarcane plumegrass HABITAT: sandy soil, usually near moisture	Eastern and southeastern Texas	Southeastern United States	Uncommon	Slight for grazing animals	Soil stabilization	None
Schizachyrium tenerum Nees Little bluestem HABITAT: woodiands	Eastern Texas	Gulf states	Rare	нА	иА	Slightly adverse
** <u>Schizachyrium scoparium</u> (Michx.) Nash Little bluestem HABITAT: prairie vegetation	Statewide	Gulf plains	Common	Moderate for grazing, cover, can be negative if dominant	Moderate grazing value	None
**Andropogon Gerardi Vitman Big bluestem HABITAI: low meadows and prairies	Nearly throughout Texas	Quebec and Maine to Saskatchewan and Montana, south to Gulf states and central Mexico	Abundant	Moderately high for food; used as food primarily by songbirds and hoofed browsers; can be negative	Livestock grazing and hay	None
**Andropogon ternarius Michx. Splitbeard bluestem HABITAT: sandy wooded areas	Eastern half of Texas	Delaware to Kentucky, south to to Gulf states	Corrmon	Moderate for food; seeds eaten by gamebirds, song- birds, small mammals; plants by deer; cover	Readily grazed by cattle	None
Andropogon Elliottii Chapm. Bluestem HABITAI: sandy wooded areas	Eastern and southeastern Texas	Southeastern United States	Rare	на	High grazing and forage value	Slightly adverse

Succies	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Andropogon <u>virginicus</u> L. Broomsed <u>ge</u> HABITAT: sandy woodlands	Eastern half of Texas, west to north-central, rare west to Edwards Plateau and south to Rio Grande plain	Most of eastern United States, California	Соптоп	Seeds eaten by upland gamebirds, songbirds, small mammals, and hoofed browsers	Moderate grazing value, range indicator	Slightly adverse
Andropogon glom <u>eratus</u> (Walt.) B.S.P. Bushy beardgrass HABITAT: moist areas	Eastern half of Texas	Southeastern United States	Сотпол	Food for upland gamebirds, song- birds, small nammals, and hoofed browsers	Moderate grazing value	None
**Bothriochloa <u>saccharoides</u> (<u>Sw.)</u> Rydb. Silver bluestem HABITAT: dryish open areas	Statewide	Alabama, Missouri, and Colorado, south to Mexico	Conwon	Moderate for browse cover, can be undesir- able if dominant	Spring and winter grazing, moderate as hay, fast cover on base soil	√one
Bothriochloa hybrida (Gould) Gould Beardgrass HABITAT: open calcareous areas	Rio Grande plains, Edwards Plateau and southeastern Texas	Texas into Mexico	Cormon	Moderate for cover	Spring and winter grazing, moderate as hay, fast cover on base soil	None
**Dichanthium annulatum Stapf. Dichanthium HABITAT: cultivated	Eastern half of Texas	Introduced in Texas, native of Old World	Uncommon	NA	Experimental forage grass	None
**Sorghum halepense (L.) Pers. Johnson grass HABITAT: open ground, fields, waste places	Statewide	Massachusetts to Kansas, south to Florida and Kansas, west to southern California	Abundant	High for nesting cover for turkey; seeds, plants, and roots, high for food	Fair grazing value and used for hay, can be poisonous (prussic acid)	None
**Sorghum bicolor (L.) Moench Sorghum HABITAT: cultivated	Statewide	Warmer parts of United States	U псолтол	High food value for geese and other foraging wildlife and seed eaters	High forage value, culti-vated for food value and feed supplement	Slightly beneficial

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Species	State Range	United States Range	Aburdance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Sorghastrum avenaceum (Michx.) Nash Indian grass HABITAT: varied habitats	Central, north- central, and northwestern Texas	Eastern half of United States	Сопызоп	High food value for grazing	High aesChetic, high forage	None
**Sorghastrum Elliottii (Mohr) Nash Lndian grass HABITAT: coastal sand vegetation affected primarily by fresh water and occasionally by salt spray	Eascern and Southeastern Texas	Maryland to Tennessee, south to Gulf states	Соптыя	Nigh for cover and grazing	Aesthetic, cattle forage	Mone
Heteropogon contortus (L.) R. & S. Tanglehead HABITAT: prairles	Southern Texas to Trinity River	Arizona and Texas	Locally cormon	Moderate for browse	Grazed by livestock, used for thatch	None
Trachyponon secundus (Pres1) Scribn, Crinkle-awn HABITAT: sandy prairies and woodlands	Southern and southeastern Texas	Texas, southern Arizona and southwestern New Mexico	Uncoumon	ИЛ	Soil stabilization	None
Elyonurus barbiculmis Hack, Balsamscale HABITAT: woodlands and prairies, usually sandy	Locally abundant on coastal plain	Gulf states	Abundant	NA NA	Soil stabilization	Slightly adverse
Hanisuris cylindrica (Michx.) C. Ktze. Joint-tail HABITAT: infrequent in open areas on usua.ly sandy soils	Eastern, southeastern, and north-central Texas	Gulf states	Uncommon	Grazed by Wildlife	Grazed readily by all livestock	None
**Manisuris rugosa (Nutt.) 0. Ktze. Joint-tail HABITAT: open woodlands, on low, moist sandy	Southeastern and eastern Texas	Southeastern coastal plains	Uncammon	Grazed by wildlife	Grazed readily by all livestock	None
Tripsacum dactyloides (L.) L. Eastern gamagrass HABITAT: NA	Scattered parts of Texas, more common in eastern half	Eastern United States	Common	High for food, high forage value	High as hay and grazing grass	None

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Snories	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Eragrostis reptans (Michx.) Nees Lovegrass HABITAT: swales and lakes and river-beds, usually	Morth-central, eastern, and south- eastern Texas	Central United States	Abundant	Moderate for food by seed eaters	Grazed by livestock	Slightly beneficial
**Eragrostis hypnoides (Lam.) B.S.P. Lovegrass HABITAT: swales, borrow ditches, streambars, banks	Eastern and southeastern Texas	Most of the United States	Abundant	Moderate for food by seed eaters	Grazed by livestock	None
Eragrostis pilosa (L.) Beauv. India lovegrass HABITAT: NA	North-central and eastern Texas	Introduced and scattered in warmer regions of new world, native of southern Europe	Rare	Moderate for food by seed eaters	Grazed by livestock, rare weed	None
Eragrostis pectinacea (Michx.) Nees Lovegrass HABITAT: disturbed loamy soil near roads, fields, and streams	Statewide	Throughout United States	Contrion	Moderate for food by seed eaters	Grazed by livestock	None
Eragrostis <u>capillaris</u> (L.) Nees Lacegrass HABITAT: NA	North-central Texas (Tarrant County)	Eastern Unifed States	Rare	Moderate for food by seed eaters	Grazed by livestock	None
**Cragrostis hirsuta (Michx.) Nees Lovegrass HABITAT: open sandy woods	Eastern and southeastern Texas	Eastern coast, and southeastern United States	Соптоп	Moderate forage for grazing animals and food for seed eaters	Grazed by livestock	None
Eragrostis lugens Nees Lovegrass HABITAT: NA	Nearly statewide except plains country	South-central United States	Соптоп	Mouerate for food by upland game birds	Forage for livestock	None
Eragrostis trichodes (Nutt.) Wood Lovegrass HABITAT: open woods and brush, usually in somewhat sandy soil	Eastern and north- central Texas, plains country, and northern parts Rio Grande plains	Central United States	Ипсовтоп	Moderate for food by feed eaters	Grazed by livestock, ornamental	Slightly adverse

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Spar for	State Ranne	United States Range	Abundance in Region	use ror Wildlife Habitat	Other Values	Project Impact
**Eragrostis curvula (Schrad.) Nees Weeping lovegrass HABITAT: NA	Plains country, spontaneous in other parts	Spontaneous in southern parts of United States	Uncommon	Moderate for food by seed eaters	High for spring grazing, green shoots in winter	None
Eragrostis refracta (Muhl.) Scribn. HABITAT: open sandy woods and along roadsides	Eastern and southeastern Texas	Coastal states, Delaware to Texas	Uncommon	Moderate for food by seed eaters	Moderate for grazing	None
**Eragrostis spectabilis (Pursh) Steud. Lovegrass HABITAT: open woods and prairies, loose sandy soil	Northwestern, north- central, and eastern Texas	Eastern two-thirds United States	Uncommon	Moderate for forage; basæl parts, stems eæten by deer during winter; seeds eaten by seed	Moderate for grazing by livestock	None
<pre>£ragrostis Silveana Swall. Lovegrass HABITAT: loamy soils</pre>	Southeastern Texas, coastal parts of Rio Grande plain	Texas into Mexico	Common	Moderate for food by seed eaters	Moderate for grazing	None
**Eragrostis curtipedicellata Buckl. Gummy lovegrass HABLIAT: prairies and open woods on sandy loam	Statewide	South-central United States	Uncomnon	Moderate for food by seed eaters	Medium forage value	None
**Eragrostis oxylepis (Torr.) Torr. Red lovegrass HABITAT: prairies, opening in woods, brush, on sandy soils	Statewide except Trans-Pecos	Southern half of United States	Солто п	Moderate value for food, seeds and forage	Medium forage value	None
Eragrostis glomerata (Walt.) L.H. Dewey Lovegrass HABITAT: roadside ditches	Eastern Texas	South Carolina and Gulf states	Rare	Moderate for f ood by seed eaters	Δ	None
**Tridens flavus (L.) Hitchc. Furpletop HABITAT: sandy loam soils,	Eastern, north- central, and south- eastern Texas	Eastern half of United States	Abundant	High food value for song and game birds, high forage value	High for grazing	Slightly adverse
Tridens congestus (L. H. Dewey) Rash Tridens HABITAT: low-lying prairies,	Southeastern and north-central Texas	Enderic to Texas	Unconmon	Seeds eaten by birds	Moderate for grazing	None

		United States Bange	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Species **Tridens strictus (Nutt.) Nash Tridens HABITAT: open forest on	Eastern, southerstein, and north-	Southeastern United States	Uncommon	Seeds eaten by birds	Moderate for grazing	Slightly adverse
sandy soil Tridens eragrostoides (Vasey and Scribn.) Nash Tridens	Rio Grande plains, infrequent in south- eastern Texas	Arizona, Texas, and Florida into Mexico	Соптол	Seeds eaten by birds	Moderate for grazing	None
##Iridens albescens "(Vascy) Woot. and Standl. White tridens HABITAT: roadside ditches, prairies	Statewide	South-central Texas	Abundan t	Seeds eaten by birds	Grazed by cattle and horses	None:
**Triplasis purpurea "(Walt.) Chapm. Purple sandgress HABIIAT: open areas of	Eastern half of Texas	Eastern half of United States	Uncommon	Seed sometimes eaten by birds	Soil stabilization	None
Sporobolus Tharpii Hitchc. Coastal sacaton HABITAT: sand and calcareous	Southeastern Texas, and Rio Grande plains	Endemic to Texas	Uncommon	Seeds are high value food for ground-feeding birds and small mammals	Soil cover	ouo O
**Sporobolus cryptandrus (Torr.) Gray Sand dropseed	Statewide	Most of the United States except extreme southeast	Abundant	Seeds eaten by songbirds, game- birds, small mammals	Fair forage value	None
Sporobolus pyramidatus (Lam.) Hitchc. Dropseed HABITAT: clay or packed loam, often alkaline or subsaline	Southeastern Texas	Southern United States	Abundant	Slight for grazing animals	Indicator of deteriorating range	None
Spurobolus virginicus (L.) Kunth Coastal dropseed HABITAT: packed loamy somewhat saline soil along the coast	Along the coast	Warm Atlantic to Gulf coastal states	Соптоп	Winter food for wild geese, ground feeding birds, small mammals	Good forage grass, soil cover	None

	Charle Charles	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Other Values Project Impact
**Sporobolus indicus (L.) R. Br. Smutgrass HABITAT: mud and moist loam, low prairies and swales	Eastern and coastal Texas	Southeastern coastal plain	Соптол	Seeds eaten by turkey, songbirds, and small mammals; plants eaten by deer	Livestock grazing, sometimes negative; livestock disease	None
Sporobolus junceus (Michx.) Kunth Dropseed HABITAT: loose sandy soil,	Eastern and southeastern Texas	Coastal states, Virginia to Texas	Соптноп	Seeds high value for ground- feeding birds, small mammals	Grazed by livestock, range indicator	Slightly adverse
Sporobolus Silveanus Swall. Uropseed HABITAT: sandy soils, meadows and openings in forests	Eastern Texas	Texas and western Louislana	Rare	ς _χ	NA .	None
Sporobolus <u>lieterolepis</u> (Gray) Gray Prairie dropseed HABITAT: sandy soil	Eastern Texas	Eastern United States	Rare	V.	Soil stabilization	None
**Sporobolus asper (Michx.) Kunth Tall dropseed HABITAT: variety of habitate	Eastern half of Texas	Eastern half of United States	Соптол	Fair forage value	Vinter grazing	Slightly adverse
Sporobolus vaginaeflorus (Torr.) Wood Poverty grass HABITAT: variety of	Eastern and north- central Texas, eastern Edwards Plateau, and plains	Eastern United States, west to Dakotas, Texas, Nebraska, and Oklahoma	Сситоп	Seeds are songbird food	Range indicator	Slightly adverse
Muhlenbergia sobolifera (Muhl.) Trin. Muhly grass Muhly grass	North-central Texas, rare in Dallas County	Eastern United States	Rare	Slight forage	VV	None
**Muhlenbergia brachyphylla Bush Muhly HABITAT: woods near streams	North-central Texas	Southeastern, and central United States	Uncommon	Seeds eaten by turkey, plants eaten by deer	VV V	Slightly adverse
Muhlenbergia frondosa (Polr.) Fern. Wiresten muhly HABITAT: woods	North-central Texas (Dallas and Grayson Counties)	Eastern United States	Rare	Slight forage	VΝ	None

			Abundance	Use for		
Species	State Range	United Scates Range	in Region	Wildlife Habitat	Other Values	Project Impact
Muhlenbergia glabriflora Scr.bn. Muhly grass HABITAT: woods	North-central Texas (Dallas County)	Southeastern United STates	Rare	Slight forage	NA	Slightly adverse
**Muhlenbergia Schreberi J. F. Gmel. Nimblewill muhly HABITAT: moist ground, shaded streams, and marshy areas	Eastern half of Texas	Eastern half of United States	Locally abundant	Eaten by deer	NA	Slightly adverse
Muhlengergia <u>capillaris</u> (Lan.) Trin. Gulf muliy HABILAT: sandy prairie openings in pine forest	Eastern and southeastern Texas	Southeastern United States	Uncommon	Seed food for wild turkey	ИА	None
Leptochloa fascicularis (Lam.) Gray Sprangletop HABITAT: alkaline areas or subsaline mud	North-central, and southeastern Texas, plains country, Rio Grande plains, and Irans-Pecos	Throughout warmer parts of United States	Abundant	Used by grazing anirals	Grazed by domestic livestock	None
Leptochloa <u>nanicoldes</u> (Pres]) Hitchc. Sprangletop HABITAT: mud	Eastern and southea.cern lexas	Missouri to Mississippi, Texas, and Arkansas	Rare	Used by grazing animals	Grazed by domestic livestock	None
Leptochloa <u>Nealleyi</u> Vasey Sprangletop HABITAT: mud near coast	Southeastern Texas, and Rio Grande plains	Coastal areas, Mexico to Louisiana	Uncommon	Used by grazing animals	Grazed by domestic livestock	None
**Leptochloa filliformis (Lam.) Beauv. Red sprangletop HABITAT: moist soil and mud	Eastern, south- eastern, and north- central Texas	Southeastern and southwestern United States	Uncommon	Used by grazing animals	Grazed by domestic livestock	None
fleusine indica (L.) Gaertn. Goosegrass HABITAT: weed in disturbed areas especially in gardens and around farm houses	Southeastern Texas, and Rio Grande plains	Widespread in warmer parts of the United States	Uncommon	None	Weed in gardens	None
Dactyloctonium aegyptium (L.) Beauv. Crowfoot HAGITAT: sandy soil or mcist	Southeastern Texas, and Rio Grande plains	Widespread in North America	Uncommon	NA	Weed	None

			Abundance	Use for Wildlife Habitat	Other Values	Project Impact
Species	State Range			Soods minor 1158 as	High forage	None
**Cynodon Dactylon (L.) Pers. Bermuda grass HABITAT: seasonally moist, sometimes alkaline or	Nearly throughout the state	Marmer parts of North America, north to New England, Michigan, Iowa, Colorado, Utah,	Ab, ndant	Seeds minor use us food for birds, leaves eaten by browsers	value, lawns	
Subsaline soils Willkommia texana Hitchc. Willkommia HABITAT: bare tight	Southeastern Texas, and northern Rio Grande plains	Revada, and oregon Endemic to Texas	Rare	NA	Scal stabilization	None
calcareous clay loam **Schedonnardus paniculatus (Nutt.) Trel.	Statewide	Central United States	Common	Slight grazing	Forage for cattle	None
Tumblegrass HABITAT: prairies, disturbed openings on tight clay loams Gymnopogon ambiguus (Michx.) B.S.P.	Eastern Texas	Eastern United States	Uncommon	иа	Soil stabilization	None
HABITAT: loose sandy podsol, open woods Gymnopogon brevifolius Trin. Gymnopogon HABITAT: loose sandy soil,	Eastern Texas	Coastal states, New Jersey to Texas	Uncommon	нА	Soil stabilization	None
open woods and savannahs Chloris Gayana Kunth Rhodes grass HABITAT: disturbed loamy soil in fields and along	Southern, eastern, and southeastern Texas, and Rio Grande plains	Scattered in warmer parts of United States	Uncommon	NA	Fair forage value	None
roads Chloris texensis Nash Fingergrass	Coastal prairies, southeastern Texas,	Endemic to Texas	On Texas rare and endangered plant list	Grazed by deer	Grazed by livestock	None
HABITAT: silty loam Chloris andropogonoides Fourn. Fingergrass HABITAT: tight black clay or	Kio Grande piains, Rio Grande plains, southern part of Southeast Texas	Texas into Mexico	Uncommon	NA	Moderate live <tock hay</tock 	None
sandy loam **Chloris verticillata Nutt. Wirdmill fingergrass HABITAT: packed rock or calcareous gravelly and sandy loam, disturbed areas	Western three-fourths Texas	Central and south- western United States	Rare	Slight grazing value	Indicator of poor range conditions	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Chloris cucullata Bisch. Hooded fingergrass HABITAT: prairies, sandy and gravelly soils	Statewide, rare on prairies	Oklahoma, New Mexico, and Texas, south to Mexico	Rare	Slight grazing value	Good forage grass	None
Chloris Canterai Arech. Fingergrass HABITAT: tight often moist clayey loamy soil	Southeastern, and southern part of East Texas	Texas	Соптоп	Grazing	Forage	None
Chloris ciliata Sw. Fingergrass HABITAT: tight calcareous loam	Southeastern Texas, and Rio Grande plains	Texas also Mexico	Common	Grazing	Forage	None
Chloris petraea Sw. Fingergrass HABITAT: seasonally moist sandy soil near the coast	Southeastern Texas, and Rio Grande plains	Coastal states, North Carolina to Texas	Соптол	Grazing	Forage	None
**Boutelowa hirsuta Lag. Hairy grama HABITAT: variety of habitats	Frequent practically statewide but rare in eastern Texas	Central United States	Соптоп	Seeds eaten by songbirds, turkeys, small mammals; Plants browsed by deer	Good grazing and forage grass	None
**Bouteloua rigidiseta (Steud.) Hitchc. Texas grama HABITAT: disturbed areas	Central and east- central Texas	Oklahoma, and Texas into Mexico	Соптоп	Browse for deer	Excellent forage	None
**Boutelowa curtipendula (Michx.) Torr. Side-oats grama HABITAT: open areas on alluvial loam or among rocks	Nearly statewide	Throughout most United States	Совтоп	Wild turkeys eat seed, excellent game food	Good forage and grazing grass, ornamental	None
**Buchloe dactyloides (Nutt.) Engelm. Buffalo grass HABITAT: in fine black calcareous clay loam in prairies and along roadsides	Most of Texas	North America from Minnesota to Montana and south through eastern Mexico	Abundant	Extremely valuable, plants used as food by browsers	Good grazing and forage grass, ornamental	None

s Project Impact	ts None e, ts for some	None	None il	None
Other Values	Young shoots good forage, older shoots much too tough even for horses, purposely burned in some areas	Livestock forage	Filters nutrients, grazing, soil and water control	Filters nutrients and pollutants
Use for Wildlife Habitat	Excellent grazing potential, high value for geese and muskrats	A major potential grass, remains green relatively longer than most genera throughout seasons, excellent grazing potential, high value for geese	Muskrat food cover, ducks and geese eat tender shoots after marsh-burn, good grazing potential	Waterfowl food, remains green relatively longer than most genera throughout seasons excellent grazing potential, high value for geese and muskrats, fresh-brackish
Abundance in Region	Abundant on coast	Locally abundant	Locally abundant	Common
United States Range	Coastal areas	Native to eastern coast of North America from the Maritime Provinces to Texas	Coasts from Massachusetts to Texas	Shores of Great Lakes, Atlanta, and Gulf coasts
State Range	Southeastern Texas, and Rio Grande plains	Coastal areas	Southeastern Texas (Chambers, Galveston and Harris Counties)	Southeastern Texas, and Rio Grande plains
Species	**Spartine spartinae (Trin.) Hitchc. Gulf cordgrass HABITAT: tight loamy somewhat saline poorly drained flats; growing well in deep, saline clays and stratified clay-loam materials; high tolerance to high soil salinities	**Sparting alterniflora Lois. Smooth cordgrass HABITAT: tidally-inundated shores of brackish to hypersaline bays and river- mouths; found in vegatative condition on margins of ponds polluted with oil; grows on organic soils in salt marshes; oil marked stems of most specimens; high salt tole- rance; grows in low depressed areas on Neches River on permanently wet clay or silty clay covered with organic peat and muck	**Spartina cynosuroides (L.) Roth Big cordgrass HABITAT: much at tidally submerged shores of brackish bays, river mouths	Sparting patens (Ait.) Muhl. Saltmeadow cordgrass HABITAT: sandy seasonally mo'st soil near coast; /dapted for firm mineral soils; tolerates medium salinities; high marsh plant

			Abundance	Use for		
	State Bange	United States Range	ın Region	Wildlife Habitat	Other Values	Project impact
Spartina pectinata Link. Prairie cordgrass	Eastern third and northern half of Texas	Eastern half of United States	Rare	Moderate value for wildlife	ĄN	None
**Distichlis spicata (L.) Greene. Saltgrass HABITAT: selt marshes near	Abundant on eastern Texas coast, rare in salt marshes inland	Atlantic, Pacific, and Gulf coasts	Very abundant	High value for waterfowl and muskrat food, nesting cover	Filters nutrients and pollutants, livestock	None
coast; tidal emergent; in- creases when other grasses decrease due to overuse; adapted to high saline marsh soils of clay to sand				;	forage	V S S S S S S S S S S S S S S S S S S S
Monanthochloe littoralis Engelm. Saltflat grass HABITAT: poorly drained brack'sh or saline flats;	Southeastern Texas, and Rio Grande plains	Florida, Texas, and California	Locally abundant	AN.	Marsn stabilizer	a los
**Aristida desmantha Trin. and Rupr. Three-awn grass HABITAT: sandy soil,	Eastern Texas, and northern Rio Grande plains	Texas, also reported from Nebraska and Illinois	Сопилол	Seeds for song- birds, and quail; plants food for browsing and grazing mammals	Slight for grazing	Slightly adverse
**Aristida <u>oligantha</u> Michx. **Aristida oligantha Michx. Prairie three-awn HABITAT: sandy and calcareous sandy soil, open ground	Eastern half of Texas	Eastern half and far western regions of United States	Согтоп	Seeds eaten by songbirds, plants by small mammals and deer	Indicator of deteriorated range conditions, troublesome to stock	None
Aristida <u>dichotoma</u> Michx. Three-awn grass HABITAT: sandy soil	Eastern Texas	Throughout eastern United States	Rare	Seeds food for songbirds, plants food for grazing and browsing mammals	Stabilizes sandy soil	None
**Aristida <u>longespica</u> Poir. Three-awn grass HABITAT: sandy open ground	Eastern and southeastern Texas	Eastern, and south- central United States	Common	Seeds food for songbirds, plants food for grazing and browsing mammals	Stabilizes sandy soil	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Aristida intermedia Scribn. and Ball Three-awn grass HABITAT: loose sandy ground	Southeastern Texas, and Rio Grande plains	From the Gulf coastal states, also Georgia, Arkansas, Oklahoma, and Kansas	Common	Seeds food for songbirds, plants food for grazing and browsing mammals	Soil stabilization	None
Aristida purpurascens Poir. Arrowfaather three-awn HABITAT: sandy woods and openings	North-central, eastern, and southeastern Texas	Eastern United States, west to Kansas, Oklahoma, and Texas	Continon	Seeds food for songbirds, plants food for grazing and browsing mammals	Low quality forage except in early spring, troublesome to stock	Slightly adverse
Aristida virgata Trin. Three-awn grass HABITAT: sandy prairies and sandy openings in woods	Eastern and southeastern Texas	Coastal statesNew Jersey to Texas	Согчезол	Seeds food for soncbirds, plants food for grazing and browsing manmals	Soil stabilization	Slightly adverse
Aristida iffinis (Schult.) Kunth Three-awn grass HABITAF: loose sandy soil, openings in forests	Eastern and southeastern Texas	Coastal states North Carolina to Texas	Uncormon	Seeds focd for songbirds, plants food for grazing and browsing mammals	Soil stabilization	Slight.ly adverse
**Aristida lanosa Ell. Three-awn grass hABITAT: loose sandy soil	Eastern and southeastern Texas	Coastal statesNorth Carolina to Texas	Uncommon	Seeds food for songbirds, and quail; plants food for browsing and grazing mammals	Slight for grazing	None
**Aristida purpurea Nutt. Purple three-awn HABITAT: loamy or rock soils, open ground CYPERACCAE (sedge family)	Western three-fourths Texas	South-central United States	Locally abundant	Seeds food for songbirds, plants food for small mammals and deer	Poor grazing grass	None
Dulichium arundinaceum (L.) Britt. Three-way sedge HABITAT: boggy places	Eastern Texas (Leon, Robertson, and Wood Counties)	Wet places and lowlands over most of the United States	Uncommon to rare	Noderate for waterfowl food	Nutrient source	None
**Scirpus maritimus L. Salt-marsh bulrush HABITAT: coastal marshes, salt marshes; will increase and invade sites under heavy use	Southeastern Texas, and Rio Grande plains	Cosmopolitan	Uncommon	High value muskrat and waterfowl food and cover	High forage value	None

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		apaco seteta betail	Abundance	Use for Wildlife Habitat	Other Values P	Project Impact
Species Scirpus cyperinus (L.) Kunth Bulrush	State Kange Eastern Texas	Southeastern United States	Common	Moderate for food and bird cover	Aesthetic, bank stabilization	Slightly beneficial
<pre>HABITAT: wet boggy places **Scirpus koilolepis (Steud.) Gl. Bulrush HABITAT: moist sandy loam</pre>	Eastern, southeastern, and north-central Texas;	Georgia, Tennessee, and Alabama to Oklahoma and Texas;	Common	Seeds eaten by waterfowl, marsh- birds, songbirds	Soil stabilization	Slightly beneficial
Scirpus molestus M. C. Johnst.	Edwards Plateau Eastern and southeastern Texas	california Arkansas, Louisiana, and Texas	Common	Noderate for food and bird cover	Soil stabilization	Slightly beneficial
Scirpus Supinus L. Bulrush HABITAT: moist sand HABITAT: moist areas near	Southeastern Texas and Rio Grande plains	Great plains from Horth Dakota to Texas	Conmon	Hesting and cover for birds	Bank stabilization, ecological	None
the coast Scirpus americanus Pers. Sword-grass HABITAT: low, often moist	Statewide	Through temperate parts of the world	Совтоп	Geese eat rhizomes	Soil cover, ecological	Slightly beneficial
**Scirpus Olneyi E. & G. **Scirpus Olneyi E. & G. **Bulrush **H&BIAT: marshy soil, increase in and/or invade sites of heavy use and uncontrolled burning, grows in permanently wet clay covered with salt, salt	Southeastern and eastern Texas	Temperate North <i>N</i> merica	Conmon	High value muskrat food and cover, witerfowl food and nesting cover	Winter forage for livestuck	None
**Scirpus validus Vahl Soft-stem bulrush HABITAT: will increase in or invade sites of heavy use or burning, solt	Eastern, southeastern, and north-central Texas	Temperate North America	Uncommon	Waterfowl food and cover	Soil cover	None
**Scirpus californicus (C.A. Mey.) Cteud. Glant bulrush HABITAT: will increase in or invade sites of heavy use or burning, salt marsh	Statewide except plains country	Warmer North Amerida	Uncommon	Wildlife cover, waterfowl food	Windbreak, bank stabilization	None

	00000	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Fuirena squarrosa Michx. Umbrella -grass HABITAT: moist usually acid	Eastern and southeastern Texas	Eastern United States	Common	Bird food	Nutrient contribution to ecosystem	Slightly adverse
**Fuirena simplex Vahl Umbrella-grass HABITAT: wet areas, usually in calcareous mud	Western half and north-central Texas	South-central United States	Common	Bird food	Nutrient contribution to ecosystem	Slightly beneficial
**Eleocharis <u>quadrangulata</u> (MTchx.) R. & S. Squarestem spikerush HABITAT: mud	Eastern and southeastern Texas	Most of eastern United States	Uncommon	Seeds, culms, tubers eaten by waterfowl and mammals, seeds eaten by shore- birds	Aesthetic, ornamental	None
Eleocharis cellulosa Torr. Spikerush HABITAI: fresh bra:kish marsh, in freshwater mud	Edwards Plateau, Rio Grande plains, and eastern Texas	Coastal states North Carolina to Texas	Rare	Seeds, culms, tubers eaten by waterfowl and mammals, seeds eaten by shore- birds	Aesthetic, ornamental	None
**Eleocharis parvula (R. & S.) Link Dwarf spikerush HABITAT: in mud generally completely submerged in shallow brackish or alkaline waters	Statewide	Throughout United States	Uncommon	Waterfowl food, tubers and seeds eaten	Aesthetic, ornamental	None
Eleocharis melanocarpa Torr. Spikerush HABITAT: moist sandy areas	Eastern Texas	Coastal states Massachusetts to Texas	Rare	On Texas rare and endangered plant list	Aesthetic, scientific	None
**Eleocharis acicularis (L.) R.8 S. Spikerush HABITAT: mud	Statewide except Trans-Pecos and eastern Texas	Coastal states North Carolina to Texas	Соптол	Seeds, culms, tubers eaten by waterfowl and manmals, seeds eaten by shore- birds	Aesthetic, ornamental	None
Eleocharis radicans (A. Dietr.) Kunth Spikerush HABITAT: marshy areas	Eastern and southeastern Texas	Virginia, Michigan, Texas, Oklahoma, and California	Rare	Cover	Aesthetic	Slightly beneficial

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Project Impact	Slightly	beneficial	None	None	None	Slightly beneficial	None		Slightly beneficial
Other Values	Assthatic.	ornamental	Aesthetic	Soil stabilization	Aesthetic, ornamental	Aesthetic, ornamental ;	Aesthetic, ornamental	Soil stabilization	Aesthetic, ornamental
Use for Wildlife Habitat	0.0000000000000000000000000000000000000	used by used by waterfowl and shorebirds as food	Cover	Cover and bird food	Seeds, culms, tubers eaten by waterfowl and mammals, seeds eaten by shore- birds	Seeds eaten by marshbirds; plants by rabbit, muskrat; seeds, culms, tubers by waterfowl	Seeds, culms, tubers eaten by waterfowl and mammals, seeds eaten by shore- birds	Cover and bird food	Seeds, culms, tubers eaten by waterfowl and mammals, seeds eaten by shore- birds
Abundance in Region	11 Kaw 111	Locally abundant	Rare	Locally abundant	Continon	Сонтол	Rare	Common	Uncommon
Court Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	United States Range	Throughout much of temperate North America	Eastern North America	Gulf states	Minnesota to [1]linois, Missouri, Kansas, Oklahoma, and Texas	West-central and Gulf coastal states	Endemic to Texas s	Coastal states New Hampshire to Texas	Coastal areasNew York to Texas
	State Range	Eastern, south- eastern, and north- central Texas; Edwards Plateau		Edwards Plateau Most parts of the state	Statewide except extreme eastern and southeastern Texas	Statewide	Rio Grande plains, and southeastern Texas Texas	Eastern and southeastern Texas	Eastern Texas
	Species	**Eleocharis obtusa (Willd.) Schult. Blunt spikerush HABITAT: moist, sandy	soils Eleocharis flavescens (Poir,)Urban Soikerusn	HABITAT: moist soils Eleccharis caribaea (Rottb.) Blake Spikerush	##Eleocharis macrostachya Britt. Spikerush HABITAT: usually in slightly alkaline mud	**Eleocharis montevidensis Kunth Sand spikerush HABITAT: moist soil	**Eleocharis <u>austrotexana</u> M. C. Johnst. Spikerush HABITAT:	Eleocharis tuberculosa (Michx.) R. & S.	**Eleocharis tortilis **Eleocharis tortilis (Link) Schult. Spikerush HABITAT: moıst sendy soil

			Abundance	Use for wildlife Habitat	Other Values	Project Impact
Species	State Kange		Hacommon	NA	يد	None
Bulbostylis ciliatifolia (Ell.) Fern. Bulbostylis HABITAT: wet sandy soil	Eastern and southeastern Texas	Virginia, south to Florida and Texas		<u> </u>	stabilization	
Bulbostylis capillaris (L.) Clarke Bulbostylis HABITAT: sandy soils in crevices of granitelike	Eastern, south- eastern, and north- central Texas	Widespread in warm temperate North America	Uncommon	NA	Soil and bank stabilization	None
**Fimbristylis autumnalis (L.) R.&S. Fimbristylis HABITAT: m.ist to wet sands, p, silts, or	Statewide	Eastern United States	Uncommon	NA A	NA	Slightly beneficial
Finbristylis tomentosa Vahl Finbristylis HABITAT: moist to wet sand	Gulf coast	Coastal plains from Worth Carolina to Texas	Cormon	Moderate cover and bird food	Soil stabilızation	None
Fumbristylis decipiens Kral Fimbristylis HABITAT: moist sandy road- sides, fields and disturbed	Gulf coast	Coastal plains eastern North Carolina, south to northern Florida, and west to eastern Texas	Common	Little value	Negative value, indicates disturbance, weed	None
Fimbristylis annua (All.) R. & S. Fimbristylis	Southern third of Texas	Temperate to tropical climates of United States	Common	Slight food	Indication of disturbance	None
<pre>**Fimbristylis Vahlii (Lam.) Link Vahl fimbry HABITAT: fine sands, silts, clays usually alluvial, bottomland</pre>	Statewide	Southeastern coastal plain, southwestern United States	Unconmon	Slight for bird food	Soil stabilization	Slightly adverse

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			Abundance	Use for Use Usitat (Other VAlues	Project Impact
Species	State Range	Kange	III key lon	İ	Soil	None
Finbristylis castanea (Michx.) Wansh fimbristylis HABITAT: moist sands or	Gulf coast	Long Island, south along Atlantic coast into Florida Keys along Gulf	Uncoimon		stabilization	
much of coastal marshes, dune swales or estuary banks (rarely alkaline situations inland)		1	Commo	Moderate food	Sofl	None
Finbristylis puberula (Michx.) Vahl Fimbristylis HABITAT: sands, sandy peats	Gulf coastal plain	Ihroughout the Atlantic and Gulf coastal plains			stabilization	
or clays of open areas or edges of grass; sedge bogs, meadows, and prairies			:	\$	បដ	None
Hemicarpha micrantha (Vahl)	Statewide except plains area	Temperate to tropical areas of United States	Uncommon	¥.		
HABITAT: moist soils **Cyperus erythrorhizos Muhl.	Southeastern Texas	Eastern half United States, west coast	Abundant	Eaten by birds, waterfowl and small manmals	Ecosystem stabilizer	Slightly beneficial
HABITAT: grows especially well in soil soaked with oil, marshy places		;	4	clicht food value	NA	None.
Cyperus articulatus L. Chintul HABITAT: moist clay	Southeastern Texas, Rio Grande plains; rare north to south part of north-central	Columbia north to Gulf states	Abundanc		i.	
**Cyperus rotundus L. Nut HARITAT: loamy soils	Texas Scattered statewide	Widely introduced in United States, native of Eurasia	Aoundant	Eaten by waterfowl, gamebirds, song-birds, and small mammals	Edible root	None
**Cyperus setigerus T. & H. Flatsedge HABITAT: moist clay meadows	North-central Texas, Rio Grande plains, Edwards Plateau,	Kansas, Missouri, Oklahoma, and Texas	Uncommon	Eaten by birds and small nammals	AN	None
and ditches **Cyperus_esculentus L. Yellow nut-grass HABITAT: occasionally moist sandy disturbed or loamy soil	plains country Statewide	Most of the United States	Uncommon	Tubers and seeds very high value; food for waterfowl, songbirds, upland game birds,	Lawn pest	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Cyperus elegans L. Sedge HABITAT: moist calcareous soils	Southeastern Texas	Florida, Louisiana, and Texas	Сопипо п	Cover and bird food	Soil stabilization	None
Cyperus virens Michx. Sedge HABITAT: moist places	Southeastern Texas, frequent in eastern Texas and coastal Rio Grande plains	Coastal from North Carolina to Texas	Abundant	Cover and bird food	Soll stabilization	Slightly beneficial
**Cyperus pseudovegetus Steud. Flatsedge HABITAT: moist places	Eastern and southeastern Texas	Gulf states north to New Jersey, Illinois, Indiana, Miscouri and Kansas	Согипо п	Eaten by water- fowl, birds small mammals	Soil stabilizer	Slightly beneficial
Cyperus reflexus Vahl Sedge HABITAT: moist sand	Eastern and southeastern Texas	Scattered in Oklahoma, Louisiana, and Texas	Rare	VII.	Aesthetic	None
**Cyperus acuminatus T. & G. Flatsedge HABITAT: moist places	Eastern, south- eastern, north- central Texas, and Río Grande plains	Missouri and North Carolina south to Texas and Louisiana; also Arizona, Nevada, California and Oregon	Abundant	Seeds and tubers eaten by birds and small marmals	Ecologic.	Slightly beneficial
**Cyperus surinamensis Rottb. Flatsedge HABIFAT.	Southeastern Texas and coastal parts of Rio Grande plains	Florida, Louisiana, and Texas	Uncorwon	Eaten by birds and small mammals	۸×	None
Cyperus phaeolepis Cherm. Sedge HABITAT: moist places	Southeastern (Galveston), and Trans-Pecos	Texas	Rare	нА	Aesthetic	None
**Cyp <u>erus Maspan</u> L. Flatsedge HABITAT: moist places	Eastern, and south- eastern Texas, coastal Rio Grande plains	Widely distributed in warmer regions of United States	Uncommon	Eaten by water- fowl, birds, and small mam als	иA	Sliahtly beneficial
**Cyperus strigosus L. Flatsedge HABITAT: bogs and marshy areas	Eastern, southeastern and north-central Texas	Pacific states, east United States, north to Canada, Kansas, Oklahoma and Texas	Common	(aten by birds and small manmals	l cologic	Stightly beneficial
Cyperus uniflorus T. & H. Sedge HABITAI: dry to moist sandy or loamy prairies, brush or open woodlands	Hearly throughout state	Arkansas, Oklahoma, Hew Mexico, and Arizona	Abundant	Moderate food	Soil stabilı2er	flone

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Cyperus retrofractus (L.) T.&G. Flatsede HABITAT: in woods on moist or dry sandy soils	Eastern and southeastern Texas	Southeast States north to New Jersey, Ohio, Missouri, and Oklahoma	Uncommon	Eaten by birds and small mammals	NA	None
**Cyperus ovularis (M1chx.) Torr. Flatsedge HABITAT: moist sand	Eastern, south- eastern, and nurth- central Texas	Eastern United States north to New York and Missouri, west to Kansas and Texas	Unc ommon	Eaten by water- fowl, birds, and small mammals	Soil stabilizer	None
**Cyperus globulosus Aubl. Flatsedge HABITAT: moist or dry sandy soil	Eastern and southeastern Texas	Gulf coast north to Virginia, Missouri, and Oklahoma	Common	Eaten by water- fowl, birds, and small mammals	Soil stabilızer	None
**Cyperus odoratus L. Flatsedge HABITAT: abundant various habitats	Statewide	Temperate regions of United States	Abundant	<pre>faten by water- fowl, birds, and small mammals</pre>	Soil stabilizer	None
Cyperus aristatus Rottb. Sedge HABITAT: various habitats	Scattered throughout Texas	Cosmopolitan in temperate and tropical areas	Uncommon	Slight food value	ИA	None
**Cyperus polystachyos Rottb. Flatsedge HABITAT: seasonally moist sand	Eastern and southeastern Texas, coastal parts of Río Grande plains	North to Massachusetts, Pennsylvania, Missouri, Arkansas, and Oklahoma	Locally abundant	Eaten by water- fowl, birds, and small mammals	Soil stabilizer	Slightly beneficial
Cyperus flavescens L. Sedge HABITAT: moist sand	Eastern and southeastern, and north-central Texas	Widespread in warmer regions of the United States	Uncommon	Slijht food	Soil stabilızer	None
Cyperus sesquiflorus (Torr.) Mattf. and Kükenth. Sedge HABITAT: moist sandy loam	Eastern Texas	Widespread in warmer regions of the United States	Common	Moderate bird food	Soil stabilizer	None
Cyperus tenuifolius (Steud.) Sedye HABITAT: moist loam	Eastern Texas	Widespread in warme" Unitid States	Uncontion	Slight bird food	Soil stabilizer	None
**Cyperus brevifolius (Rottb.) Hassk. Flatsedge HABITAT: moist loam	Southeastern Texas	Warme regions of United States	Common	Eaten by birds and small mammals	Ecologic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Other Values Project Impact
**Cladium jamaicense Crantz Saw-grass HABITAT: fresh water margins, calcareous soil marsh	Southeastern Texas, Edwards Plateau		Сонтол	Waterfowl food, protective cover for other wild- life, nutria food	Stabilizes banks	None
**Rhynchospora corniculata (Lam.) Gray Horned-rush HABITAT: mud	Eastern and southeastern Texas	Southeastern United States	Сопиноп	Waterfowl food	Soil stabilizer	None
**Rhynchospora glomerata (L.) Vahl Beak-rush HABITAT: moist sand	Frequent in eastern Texas, Infrequent in southeastern Texas	Gulf states north to Delaware, Virginia, Tennessee and Arkansas, west to Oklahoma and Texas	Сончтол	ил	Soil stabilizer	Slightly beneficial
**Rhynchospora capitellata (Michx.) Vahl Beak-rush HABITAT: acid boggy ground	Eastern Texas	Eastern United States, Uncommon to trate to Hova Fare Scotia, west to Wisconsin, Missouri, Oklahoma, and Texas	Uncommon to	ИА	Soil stabilizer	None
Rhynchospora macra (Clarke) Small Ecak-rush HABITAT: bogs	Castern Texas	Georgia, Florida, Mississippı, and Texas	On Texas rare and endangered plant list	Minor frad for quail	Scientific	None
Rhynchosp. · filifolia Gray Beak-rush HABITAT: moist loam	Casterń Texes	New Jersey to Texas	On Texas rare and endangered list	Minor food for quail	Scientific	None
Rhynchospora fascicularis (Michx.) Vahi Beak-rush HABITAT: moist sand	Southeastern Texas	Low coastal areas. Virginia to Texas	¹ /n _G oranon	Minor food for quail	Soil stabilizer	None
Phynchospora gracilenta Gray Beak-rush HABITAT: boggy ground	Eastern and southeastern Texas	Southeastarn United States mainly in coastal states	facore on	Minor food for quail	Aesthetic	None
Shynchospora Harveyi W. Boott. beak-rush HABITAT: low places in open woods and prairies	Eastern, south- eastern, and north- central Texas	Southeastern United States	Common	Minor food for quail	NA N	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Wildly. · · · t	Other Values	Project Impact
Rhynchospora rariflora (Michx.) Ell. Beak-rush HQBITAT: bons or piny crayfish-lend	Eastern and southeastern Texas	Coastal areas, New Jersey to Texas	Rare	Minor food tor quail	Ecologic	None
ynchospora inexpansa (Michx.) Vahl Beak-rush HABITAT: open pinelands	Eastern and soucheastern Texas	Coastal states, Virginia to Texas	Сопило п	Minor food for quail	NA	None
Rhynchospora Elliottii A. Dietr. Beak-rush HABITAT: moist sa.dy areas	Eastern and southeastern Texas	Near coast, North Carolina to Texas	Common	Minor food for quail	Soil stabilizer	None
Rhynchospora perplexa Small Beak-rush HABITAT: moist sand	Eastern and southeastern Texas	Coastal states, Virginia to Texas	Rare	Minor food for quail	Aesthetic	None
**Rhynchospo a caduca Ell. Beak-rush HABITAT: moist sand	Frequent in south- eastern Texas, Tess frequent in eastern Texas, Edwards Plateau	Coastal states, Virginia to Texas; also Arkansas and OVlahoma	Common	NA	Soil stabilizer	Slightly beneficial
**Rhynchospora globularis (Chapm.) Small Beak-rush HABITAT: moist sandy soil	Frequent in eastern Texas, infrequent in southéastern Texas	North to New Jersey, Tennessee, and Missour;, west to Oklahoma and Texas, also California	Cormon	Food for birds	Scil stabilizer	Slightly beneficial
Psilocarya nitens (Vahl) Wood Bald rush HABITAT: marshes	Southeastern Texas (Hardin to Aransas Counties)	Coastwise, Massachusetts to Texas	Uncommon	Waterfowl food	Aesthetic	Slightly adverse
Scleria georgiana Core Slender nut-rush HABITAT: loam	Southeastern and north-central Texas	Coastal states, North Jarolina to Texas	Соптол	Waterfowl food	Ą	None
**Scleria triglomerata Michx. Whip-grass HABITAT: moist soils	Eastern, south- eastern, and north- central Texas	Eastern half of United States	Locally abundant	Slight food value	Soil stabilizer	Slightly beneficial
Scheria ciliata Michx. Stone-rush HABITAT: N	Southeastern and north-central Texas	Virginia to Missouri, south to Gulfstates	Common	High value food for quall	ΙΙΑ	None

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Project Impact	None	None	Mone	None	None	Slightly beneficial	Slightly beneficial	None
Other Values	Soll stabilizer	Soil stabilızer	Aesthetic	Aesthetic, scientific	Soil stabilizer	Soil stabilizer	Aesthetic	Ecologic
Usc for Wildlife Habitat	Slight food value	Slight food value	Waterfowl, marsh- bird, upland game- bird, scngbird, fur animals, small mammal, and browser food	Wildlife cover and food	Wildlife cover and food	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, songbirds, some fur and game mammals; and seeds, leaves, roots by small manmals, deer	Seeds eaten by variety of birds; seeds, leaves, and roots eaten by small mammals and deer	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game fur and game fur and seeds, roots by seal i game fs. deer seeds.
Abundance in Region	Uncommon	Common	Соштоп	On Texas rare and endangered plant list	Совинси	Соптол	Uncommon	Unc онто <i>n</i>
United States Range	Much of eastern United States	Southeastern United States	Southeast Canada and eastern United States, west to Minnesota, Iowa, Missouri, Arkansas, and Texas	Lowlands of southeastern United States	Eastern half of United States	Eastern third of United States	Southeastern United States, north to New York and Kansas	Eastern United States, west to Michigan, Nebraska, Kansas, Oklahoma, and Texas
State Range	Eastern and south- eastern Texas	Eastern, south- eastern, and north- central Texas	Eastern and southeastern Texas	Eastern and southeastern Texas	Eastern and southeastern Texas	Eastern Texas	Eastern and southeastern Texas, infrequent in north-central Texas	Southeastern, eastern, and north- central Texas
Species	Scleria pauciflora Muhl. Carolina whip-grass HABITAT: moist sandy	Scleria <u>oligantha</u> Michx. Stone-rush HABITAT: moist sand	**Carex intumescens Rudge Bladder sedge HABITAT: moist areas	Carex gigantea Rudge Sedge HARITAT: moist places	Carex lupuli, a Muhl. Sedge HABITAT: moist soils	**Carex lurida Wahl. Sedge HABITAT: moist sand and mud	**Carex Frankıı Kunth Franks sedge HABITAT: moıst sand	**Carex hyalinolepis Steud. Sedge ::4BITAT: wet black clay

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Carex cherokeensis Schwein. Sedge HABITAT: sandy loam i: woodlands	Eastern, south- eastern, and north- centrel Texas	Gulf states, Georgia, Oklahoma, Arkansas, and Missouri	Abundant	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, somefur and game mammals; and seeds, leaves, roots by small mammals, deer	Soil stabilizer	Slightly adverse
Carex microdonta T. & H. Sedge HABITAT: moist open places, usually calcareous areas	North-central and southeastern Texas, Edwards Plateau, infrequent in eastern Texas	Mississippi, Louisiana, Texas, Oklahoma, and Missouri	Солипол	Wildlife cover and food	Soil stabilizer	None
**Carex amphibola Steud. Sedge HABITAT: moist woodlands	Eastern, south- eastern, and north- central Texes	Southeastern United States	Соптоп	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals, deer small mammals,	Son) stabilizer	Slightly adverse
**Carex <u>flaccosperma</u> Dew. <u>Sedge</u> HABITAT: moıst sandy scil	Eastern and southeastern Texas	Southeastern United States	Соптоп	Provides wildlife Cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals, deer	Soil stabilizer	None
**Carex <u>blanda</u> Dew. Sedge HABITAT: moist woods	Eastern and north- central Texas	Eastern temperate North America	Сомтол	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals, deer	٧ ۲	Slightly adverse

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Project Impact	None	Slightly adverse	Slightly adverse	None	Slightly adverse	Sliahtly beneficial
Other Values	Soil stabilizer	ия	Soil stabilizer	Soil stabilizer	Soil stabilizer	Ecologic ,
Use for Wildlife Habitat	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals and deer	Provides wildlife cover; seeds eaten by ducks, coots, narshbirds, gamebirds, some fur and gamemammals; ard seeds, leaves, roots by small manmals and deer	Wildlife cover and food	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals and deer	Wildlife cover and food	General use by songbirds, marsh-birds, upland game, small mammals, and hoofed browsers as food
Abundance in Region	Uncommon	И псовятол	Uncommon	Conmon	Conmon	Uncopsion
United States Range	Southeastern United States	Northeastern United States, west to Minnesota and Kansas; also Oklahoma and Texas	Southeastern United States	Atlantic coastal states and southeastern United States	Eastern half of United States	Pennsylvania to Indiana and south to North Carolina, Tennessee, Arkansas, Oklahoma, and Texas
State Range	Eastern and southeastern Texas	Morth-central Texas	Eastern and southeastern ïexas	Eastern Texas	Eastern and southeastern Texas	Eastern, south- eastern, and north- central Texas
Cheries	**Carex crebriflora Wieg. Sedge HABITAI: moist areas	**Carex <u>Davisii</u> Schwein. and Torr. Sedge HABITAT· calcareous woods	Carex oxylepis T. & H. Sedge HABITAT: low moist rich woods near streams	**Carex Bushii Mack. Sedge HABITAT: moist sandy soil	Carex complanata T. & H. Sedge HABITAT: moist sandy woods	**Carex caroliniana Schwein. Carolina sedge HABITAT: rich open woods near streams in sandy seils

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	Species	State Range	United States Range	in Region	Wildlife Habitat	Other Values	Project Impact
	**Larex Joorii Bailey Hummock sedge HABITAI. moist sandy Soll	Eastern and southeastern Texas	Southeastern and east coastal United States	Соммо и	Seeds important food for some waterfowl, songbirds, marskbirds, ar gamebirds; ls and leaves en by small mals and	Ecologic	None
	**Carek Emoryl Dew. Sedge HABITAT: calcareous mud	North-central and Trans-Pecos Texas	Eastern half of the United States	Contrion	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game ammmmals; and seeds leaves, roots by small mammals and deer	ИA	None
	Carex stricta Lam. Sedge HABITAT: moist sandy forest and bogs	Eastern Texas	Eastern United States	On Texas rare and endangered plant list	i.A	Scientific; aesthetic	None
	Carex physorhyncha Liebm. Sedge HABIT4T: moist sandy soil	Eastern, south- eastern and north- central Texas	Southeastern United States	On Texas rare and endangered plant list	Food	Scientific; aesthetic	None
	C <u>arex leptalea</u> Wahl. Sedge HABITAT: sphagnum areas	Eastern and southeasterr Texes	Eastern temperate North America	Common	Slight food	Cologic	None
	**Carex crus-corvi Kunze Growfoot sedge HAB'TAT: growing in mud, springs	Fastern Texas, infraguent in south- east and central Texas	Gulf states, north in central United States to Ohio, Michigan, Minnesota and Wisconsin	Contracon	High food and protective cover value for wildlife	Ecologic	Slightly beneficial
	**Carex decomposita Muhl. Branched sedge HABITAT: usually on rotten logs at lake margins, wet areas	Northeastern Texas	Eastern United States. ncrth to New York and Michigan, west to Missouri and Texas	on Texas rare and endangered plant list	Seeds eaten by waterfowl, marsh- birds, songbirds, and fur animals	Scientific, aesthetic	Slightly beneficial
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	00000	United States Bange	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Carex vulpinoidea Michx. **Carex vulpinoidea Michx. Fox sedge HABITAT: frequent in mud	Eastern and southeastern Texas	United States, west to Rocky Mountains		Seeds eaten by variety of birds and mammals, leaves eaten by small mammals and deer	NA	None
**Carex Muhlenbergii Schkuhr. Muhlenburg sedge HABITAT: sandy forested	Eastern half of Texas	Eastern half of United States	Совтол	Seeds eaten by birds and small mammals, plants browsed by deer	NA	Slightly adverse
**Carex cephalophora Muhl. Sedge HABITAT: sandy moist soil	Eastern, south- eastern, and north- central Texas	Eastern United States, west to Michigan and Texas	Сопппол	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, roots by small mammals and deer	Soil stabilizer	None
**Carex retroflexa Muhl. Sedge HABITAT: sandy woodlands	Eastern, south- eastern, and north- central Texas	Eastern United States, west to Illinois, Missourl, Oklahoma, and Texas	Uncommon	provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gameburds, some fur and game mannmals; and seeds, leaves, roots by small mammals and deer	VN	Slightly adverse
**Carex atlantica Barley Sedoe HABITAT: along clear acid streams	Eastern and southeastern Texas	Eastern United States, west to Michigan and Texas	On Texas rare and endangered plant list	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals and deer	High aesthetic, scientific value	None
**Carex hyalina Boott. White sheath sedce HAGITAT: muddy places	Eastern Texas	Arkansas, Oklahoma, Texas	On Texas rare and endangered plant list	Slight food value	Aesthetic, scientific	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlire Habitat	Other Values	Project Impact
**Carex Brittonnana Bailey Sedge HABITAT: moist areas	Rio Grande Diains, southeastern and north-central Texas	Texas and Oklahoma (reported from Florida)	Contanon	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, game-birds, some fur and game mannmals; and seeds, leaves, roots by small mammals and deer	Soil stabilizer	Slightly beneficial
**Carex reniformis (Bailey) Small Sedge HAGITAT: mud, occasionally in woodlands	Eastern, south- eastern, and north- central Texas	Eastern half of United States	Common	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and gamemannals; and seeds, roots by small mammals and deer	NA .	Slightly adverse
**Carex alata Torr. Wingseed HABITAT: muddy places	Eastern Texas	Coastal states in east-northeast United States	On Texas rare and endangered plant list	Slight food value	Aesthetic, scientific	Siightly beneficial
**Larex albolutescens Schwein. Sedae HABITAT: moist sand	Eastern and south- eastern Texas	Eastern half of United States	On Texas rare and endangered plant list	Provides wildlife cover; seeds eaten by ducks, coots, marshbirds, gamebirds, some fur and game mammals; and seeds, leaves, roots by small mammals and deer	High aesthetic and scientific value	Slightly beneficial
**Sabal minor (Jacq.) Pers. **Sabal minor (Jacq.) Pers. Bush palmetto #ABITAT: lowlands, swamps, river terraces and floodplains	Eastern Texas, west to the Edwards Plateau and south to Aransas County	Southeastern coastal United States	On Texas rare and endangered plant list	Fruit high value food for birds, mannels; plants browsed by deer; cover	Accasional livestock forage, aesthetic and scientific	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
ARACEAE (arum family,					to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	
**Arisaema Dracontium (L.) Schott treen dragon HABITAT: rich woodlands and alluvial soils in woods and thickets	Eastern and southeastern Texas	Florida, west to Texas, north to New Hampshire	Uncoimion	Fruit and leaves eaten by pheasant and turkey; fruits eaten by wood thrush	Aesthetic	Slightly adverse
Arisaema triphyllum (L.) Schott Jack-in-the-pulpit HABITAT: wet woods, swamus and boggy areas	Fastern and southeastern Texas	From Georgia, west to Texas, north to New York, Connecticut, and southeastern Massachusetts	Uncormon	Nectar eaten; foliage eaten by turkey; fruit eaten by song- birds	Root edible; ornamental; highly desthetic	None
Arisaema quinatum (Vutt.) Schott Indian-turrip HABIIAT: moist wooded slopes	Eastern Texas	From Texas, east to Georgia and north to Tennessee and North Carolina	Uncommon	Nectar eaten; foliage eaten by turkey; fruit eaten by song- birds	Root edible	None
**Peltandra virginica (L.) Kunth Tuckahoe, arrow-arum HABITAT. swarpr, moist woodlands, bogs, streams, bodies of water	Eastern Texas	Eastern United States	иА	Food for variety of birds	Root edible; aesthetic	Moderately beneficial
Acorus Calamus L. Sweetflag HABITAI: wet places and borders of quiet waters	Morth-central and northeastern Texas	Eastern half and northwestern United States	Uncommon	Slight food values	Root edible	Slightly beneficial
LEMNACEAE (duckweed family) Spirodela polyrhiza (L.) Schleid. Duck-meat HABITAT: ponds, lakes, bayous, and sluggish streams	Statewide	Most of the United States	Abundant	Food for water- towl and marsh- birds	Ecologic and aesthetic	Very beneficial
Spirodela oligorhiza (Kurtz) Henelm. Duck.meat Habilar lates and conds	Eastern Texas	Most of the United States	Rare	food for water- fowl and marsh- birds	Ecologic and aestheinc	Very beneficial

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Species	State Range	United States Range	in Region	Use ror Wildlife Habita⁺	Other Values	Project Impact
Lemna valdiviana Phil. Duckweed HABITAT: ponds, lakes, ditches, springs	Statewide	Most of United States	Соптоп	Waterfowl food, cover for invertebrates	Aesthetic	Very beneficial
Lemna trinervis (Aust.) Small Duckweed HABITAT: lakes, streams, ditches, canals	Statewide	Most of United States	Common	Waterfowl food, cover for invertebrates	Aesthetic	Very beneficial
Wolffia columbiana Karst. Water-meal HABITAT: lakes and sloughs	Eastern Texas	Most of United States except northwest	Uncommon	Waterfowl food, cover for invertebrates	Aesthetic	Very beneficial
Molffia papulifera Thomps. Water-meal HABITAT: surface of lakes, ponds	Eastern and central Texas	Southeastern United States	Uncommon	Waterfowl food, cover for invertebrates	Sometimes a nuisance	Very beneficial
Wolffiella floridana (J. D. Sm.) Thomps. Bog-mat HABITAT: lakes and ponds	Eastern Texas	Southeastern and Gulf coastal plains of United States	МА	Waterfowl food, cover for invertebrates	Ecologic	Moderately beneficial
MAYACACEAE (bogmoss family) Mayaca Aubletii Michx. Bogmoss HABITAT: springy and seepage areas, along	Southeastern Texas	Southeastern and Gulf coastal plains of United States	Uncommon	MA	Aesthetic	Moderately beneficial
XYRIDACEAE (yellow-eyed grass family) Xyris Baldwiniana Schult. Yellow-eyed grass HABITAT: moist sands or sandy peats of pine flatwoods, hillside bogs, ditches, savannahs	y) Eastern Texas	Southeastern and Gulf coastal plains of United States	Соптоп	Slight for seeds as food	Soil stabilizer	Sligntly beneficial
Xyris ambigua Kunth Vellow-eyed grass HABITAT: moist sands or sandy peats of pine flat- woods, hillside bogs, ditches, savannahs	Eastern Texas	Southeastern and Gulf coastal plains of United States	Common	Slight for seeds as food	Soil stabilizer	Slightly beneficial

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	0 - 1 - 1 - 1	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Xyris caroliniana Walt. Xyris caroliniana Walt. Yellow-eyed grass HABITAT: moist sands of pine flatwoods or savannahs, in well drained cands, scrub	Eastern Texas	Southeastern and Gulf coastal plains from New Jersey to Texas	NA	Slight for seeds as food	NA P	None
Xyris platylepis Chap Xyris platylepis Chap YARITAT: moist to wet sands or sandy peats in pineland, pond margins, savannahs, bogs,	Eastern Texas	Southeastern and Gulf coastal plains Virginia to Texas	Convinon	Slight for seeds as food	Soil and bank stabilizer	Moderately beneficial
Xyris torta Sm. Yellow-eyed grass HABITAT: sphagnous bogs, stream banks, lake and pond shores, wet sandy swales, acid sandy	Eastern Texas	Canada, south to Georgia, Oklahoma, and Texas	Uncommon	Slight for seeds as food	Soil and bank stabilizer	Moderately beneficial
**Xyris iridifolia Chapm. Yellow-eyed grass HABITAf: wet sand, peat muck, stream banks, cypress swamps, marshes,	Eastern Texas	Southeastern and Gulf coastal plains from southeastern Virginia to Texas	Cormon	Slight for seeds as food	Soil and bank stabilizer	Sliahtly beneficial
**Xyris Jupicai Rich. Yellow-eyed grass HABITAT: wet sand or sandy peat or alluvium of road- side ditches, ponds, cypress swamps, lake	Eastern Texas	Southeastern and Gulf coastal plains from Hew Jersev to Texas, and Arkansas	Uncommon	Slight for seeds as food	Soil and bank stabilizer	Moderately beneficial
Xvris <u>difformis</u> Chapm. Xvris <u>difformis</u> Chapm. Yellow-eyed grass HABITAI: wet sands or sandy peats in flatwoods, pond margins, ditches, lake snores, often in heavily shaded alluvium	Eastern Texas	Coastal plains, Texas to south- eastern Canada and Great Lakes	Uncommon	Slight for seeds as food	Soil and bank stabilizer	Moderately beneficial

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
ER10CAULACEAE (pipewort family)						
**Eriocaulon decangulare L. Pipewort HABITAT: moist meadows and pinelands, savannahs, bogs, swamps, pond margins	Eastern Texas	Southeastern and Gulf coastal plains from New Jersey to Texas	ИА	NA	Aesthetic	Slightly beneficial
Eriocaulon compressum Lam. Pipewort HABITAT: in shallow water of acid ponds, swamps, low pinelands, streams	Eastern Texas	Southeastern and Gulf coastal plains from New Jersey to Texas	NA	NA	Aesthetic	None
Eriocaulon texense Körn. Pipewort HABITAT: bogs, swamps,	Eastern Texas	Eastern Texas to southwestern Alabama	NA	NA	Aesthetic	Slightly beneficial
Lachnocaulon anceps (Walt.) Morong Hairy pipewort HABITAT: in wet places	Southeastern Texas	Southeastern and Gulf plains from Virginia to Texas	NA	RA	Aesthetic	Sli ₁ htly adverse
BROMELIACEAE (pine-apple family)						
**Tillandsia usnevides (L.) L. Spanish moss HABITE Epiphytic or on wires, fences and other such supports	Central, southern, and coastal Texas	Southeastern and Gulf plains from Virginia to Texas	Common	Nest material	Aesthetic	Moderately adverse
COMMELIMACEAE (spiderwort family)						
**Commelina communis L. Day-flower HABITAT: stream banks, low thickets	Eastern Texas	Eastern half of United States	Conmon	Seeds eaten by gamebirds and songbirds; plants eaten by deer	Aesthetic	Slightly adverse
**Commelina diffusa Burm. f Spreading day-flower HABITAT: floodplain woods and wet plains	Eastern and southern Texas	Southeastern United States, west to Texas, Oklahoma, and Kansas	иА	Seeds eaten by some game and songbirds; plants eaten by deer	Aesthetic. may be cultivated	U пкломп
**Cornelina virginica ' Spiderwort HABITAT: low woods	Eastern and north- central Texas	Texas, north to Illinois and Mary- land, cast to Atlanfic Ocean	на	Seeds eaten by doves, ouail, blackhirds, and cardinals; blants by deer	Aesthetic, may be cultivated	Unknown

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Species	State Range	United States Range	in Region	USE for Wildlife Habitat	Other Values	Duoisst 1
**Commelina erecta L. Day-flower HABITAT: sandy rocky soils	Eastern two-thirds of Texas	Wisconsin, south to Florida and Arizona, west to Wyoming	Соттоп	Seeds eaten by birds, plants eaten by deer	Aesthetic, may be cultivated	None
**Tradescantia hirsutiflora Bush Spiderwort HABITAT: sandy soil of prairies and open woods and on banks	Eastern half of Texas	West Florida, Texas, Arkansas, and eastern Oklahoma	Uncommon	NA	Aesthetic, may be cultivated	Slightly beneficial
**Tradescantia <u>Ohioensis</u> Raf. <u>Spiderwort</u> HABITAT: meadows, prairies, and roadsides	Eastern two-thirds of Texas	Eastern half of United States	Сопипо п	ПА	Cultivated, garden plant	None
**Tradescantia Reverchonii Bush Spiderwort HABITAT: rocky open woods and sandy soils	Eastern half of Texas	Texas and western Louisiana	Uncommon	NA	Aesthetic, may be cultivated	None
Tradescantia humilis Rose Spiderwort HABITAT: sandy and rocky soil	Eastern half of Texas	Endemic to Texas	NA	ИА	Aesthetic, may be cultivated	None
Iradescantia occidentalis (Britt.) Smyth Spiderwort HABITAT: prairies and plains, sandy or rocky soils	Statewide	Central United States	Uncomion	NA	Aesthetic, may be cultivated	None
PONTEDERIACEAE (pickerel-weed family)	у)					
Eichhornia crassipes (Mart.) Solms. Water-hyacinth HABITAT: ponds, streams	Southern and eastern Texas	From Virginia, south to Florida, west to Missouri and Texas	Соптоп	Muskrat food	Has become a noxious weed, ornamental	Very beneficial
**Pontederia cordata L. Pickerel-weed HABITAT: marsher, ditches in shallow water	^F astern Texas	Eastern half of United States	NA	Seeds ealen by waterfow! and muskrai	Aesthetic	Moderately beneficial
Heteranthera dubia (Jacq.) MacM. Water-stargrass HABITAT: quiet water, subrerged plant	Southern and south- central lexas	Florida, west to Texas, north to Quebec, west to Oregon	ВА	Aquatıc food	ł.cologic	Moderately beneficial

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Heteranthera reniformis R.&P. Mud-plantain HABITAT: in streams	West to south- eastern Texas	Eastern half of United States	N.F.	Aquatic food	Ecologic	Slightly adverse
JUNCACEAE (rush family) **Juncus tenuis Willd. Slender-rush HABITAT: moist sand	Eastern and southeastern Texas	Eastern half of United States	Uncommon	Plant food for small mammals	Slight forage	Moderately beneficial
**Juncus interior Wieg. Inland-rush HABITAT: muist calcareous soil	North-central and southeastern Texas, west portion of eastern Texas and coastal part of Rio Grande plains, west through Edwards plateau, plains country, and the Trans-Pecos	Central United States	Common	Wildlife Cover	Slight forage	Very beneficial
**Juncus dichotomus Lll. Forked-rush HABITAT: moist sandy soil	Eastern and probably southeastern Texas	Coastal States Massachusetts to "exas	Ипсоптол	Wildlife cover	Sligkt forsge	Sligntly beneficial
**Juncus bufonius L. Toad-rush HARITAT: moist soils	Statewide except extreme panhandle and Rio Grande plains	Temperate regions throughout the world	Locally abundant	Wildlife	Slight forege	Moderately beneficial
**Juncus effusus L. Soft rush HABITAT: moist sandy soil or shallow water	Eastern and southeastern Texas	Widely distributed in temperate areas	Abundant	Forage and cover	Slight forage	Moderately beneficial
**Juncus coriaceus Mack. Leathery rush HABITAT: moist soils	Eastern Texas	Southeastern United States	4 4	Plant food for small mammals	Slight forage	Unknown
**Juncus <u>Roemcrianus</u> Scheele <u>Black rush</u> HABITAT: coastal salt marshes, tidal emergent	Southeastern Texas	Coastal States Naryland to Texas	Scattered	Plant cood for smali mannals	Formerly woven into useful items	Hone .

			Abundance	Use for wildlife Habitat	Other Values	Project Impact
Species	State Range	United States Range	10 keg 1011	wildlife cover	Slight	Moderately
**Juncus marginatus Rostk.	Most of Texas; common in eastern	Eastern half temperate North America	Common		forage	beneficial
**Juncus repens Michx. Creeping rush	half, rare in west Eastern Texas	Coastal states Delaware to Texas, inland to Tennessee	Uncommon	Plant is food for small mammals	Slight forage	Slightly beneficial
HABIIAI: ponds and sandy loam soil **Juncus Torrey! Cov. Rush HABITAT: marshy margins	Statewide except south	and Arkansas Most of United States	Conmon	Wildlife cover	Bank stabilization	Very beneficial
of lakes, ponds, streams **Juncus validus Cov.	Eastern half of	Southeastern United States	Abundant	NA	NA	Slightly beneficial
Roundhead rush HABITAT: NA Juncus scripoides Lam. Rush	Most of eastern two-thirds of Texas	Eastern half of United States	Continon	Nildlife cover	Slight forage	Slightly beneficial
HABITAT: deep sandy soils **Juncus brachycarpus Engelm. White root rush	Eastern and southeastern Texas	Eastern and southeastern United States	Cormon	Wildlife cover	Slight forage	Moderately beneficial
**Juncus trigonocarpus Steud. Bog-rush	Eastern Texas	Coastal states South Carolina to Texas	Rare	на	Aesthetic	None
HABITAI: seeps and boys on sandy soil **Juncus diffusissimus Buckl. Slimpod rush	Eastern and north- central Texas	Coastal states Georgia to Texas	Common	Wildlife cover	Slight forage	Slightly adverse
sofil Jungus acuminatus Michx.	Most of Texas except Panhandle	Most of United States	Uncommon	Wildlife cover	Slight forage	Slightly beneficial
Kush HABITAT: wet places **Juncus nodatus Cov.	Eastern half of Texas	South-central United States	Unconviion	Wildlife cover	Slight forage	Slightly beneficial
Kush HABITAT: NA Luzula bulbosa (Woodrush Woodrush HKBITAT: forested sandy soils, grassy seepage banks	Eastern and southeastern Texas	Coastal states Massachusetts to Texas; inland to Indiana, illinois, and Oklahoma	Common	¥ ¥	Bank stabilization	Moderately n beneficial

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Luzula echinata (Small) Herm. Woodrush HABITAT: sandy soil, well drained stream banks in hardwood forest	Eastern Texas	Most of eastern United States	Rare	NA	Bank stabilization	None
LILIACEAE (111) family) Tofieldia racemosa (Walt.) Small False asphodel HABITAT: wet sandy soil on pine savannah, pitcher plant bogs	Southeastern Texas	Southeastern and Gulf coastal plains, from New Jersey to Texas	NA	NA	Ecologic	None
Stenanthium gramineum (Ker) Morong. Featherbells HABITAT: forest and forest edges	Eastern Texas	Southeastern Texas	NA	iiA	ПА	Unknown
Zigadenus Nuttallii Gray Poison camas HABITAT: prairies and hillsides of calcareous rocks	Eastern third of state	Tennessee to Kansas and Texas	Uncommon	NA	Poisonous to livestock	None
Zigadenus densus (Desr.) Fern. Crow-poison HABITAT: damp pinelands and bogs	Eastern Texas	Southeastern United States	NA	NA	Poisonous to livestock	None
Schoenolirion croceum (Michx.) Wood Yellow sunny-bell HABITAT: wet savannahs, marshy pinelands, bogs, seepage slopes	Southeastern Texas	Southeastern and Gulf coastal plains, from North Carolina to Texas	On Texas rare and endangered plant list	NA	Scientific, aesthetic	None
Schoenolirion texanum (Scheele) Gray Yellow sunny-bell HABITAI: on low ridges, open mixed forest	Western edge of southeastern Texas	Southeastern Texas	On Texas rare and endangered plant list	NA	Scientific, aesthetic	None

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			Abundance	Use for	Other Value	Ovoiect Impact
Species	State Range	United States Range	in Region	WINDING Haustar	חרוובו אמוחפי	Clark and Conco
Melanthium virginicum L. Bunchflower HABITAT: meadows, bogs, swales, savannahs, edges of woods and low	Eastern and southeastern Texas	Much of eastern half of United States	Uncommon	NA N	Aesthetic	Singntly adverse
**Allium canadense L. Canada garlic HABITAT: roadsides, madows, woods, fields,	Eastern half and central Texas	Eastern half of United States	Соптол	Forage	Root edible; aesthetic	None
Allium Drummondii Regel Wild onion HABITAT: on plains, hills, prafries, particularly on	Statewide	Central United States	Соммол	Forage	Root edible; aesthetic	None
**Nothoscordum bivalue (L.) Britt. Crow-poison HABITAT: low sandy woods,	Statewide	Florida to Texas, north to Virginia and Nebraska	Сонтол	NA	Indicator of disturbance; aesthetic	Moderately adverse
disturbed solis Lilium Michauxii Poir. Carolina-lily HABITAT: pine and oak	Southeastern Texas	Southeastern and Gulf coastal plains, Virginia to Texas	Ч.	ИА	Aesthetic	Unknown
Erythronium rostratum Wolf Dog's-tooth-violet HABITAT: rich moist woods, especially along creeks	Eastern Texas	Alabama, Tenressee, Kansas, Misscuri, Oklahoma, and Arkansas to Texas	On Texas rare and endangered plant list	Rlooms eaten by wildlife	Aesthetic; scientific	None
Erythronium mesochoreum Knerr Dog's-touth-violet HABITAT: prairies,	Mostly north-central Texas	Central United States	Uncommon	Blooms eaten by wildlife	Aesthetic	None
Yucca pallida McKelvey Twisted-leaf yucca HallAI: blackland	North-centra! Texas	Endemic to Texas	Common	None	Toxic to livestock, ornamental, aesthetic	e e e e e e e e e e e e e e e e e e e
Yucca arkansana Trel. Yucca HABITAT: prairies, on limestone outcrops and rocky soils	South-central to north-central Texas	Texas to Arkansas and Oklahoma	Соптоп	None	To: ic to livestock, ornamental, aesthætic	Rone

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Asparagus officinalis L. Garden asparagus HABIAT; escapes from cultivated to sandy fields and dry open woods	Most of Texas	Most of United States, natico of eurasia	Сопто п	NA	Aesthetic, highly edible	None
Polygonatum biflorum (Walt.) Ell. Great solomon's seal HABITAT: rich, moist, wooded slopes	Eastern and north- central Texas	Eastern half of United States	On Texas rare and endangered plant list	Seeds eaten by birds	Aesthetic, scientific	None
Trill.um texanum Buckl. Wake-robin HABITAT: low moist woods, bogs, stream banks	Cass, Houston, and Panola Counties	Arkansas, southwestern On Texas rare Missouri, and Texas and endangered plant list	on Texas rare and endangered plant list	NA	Aesthetic, scientific	None
Trillium gracile J. D. Freeman Wake-robin HABITAT: sandy loam of rich piney woods	Southeastorn Texas	Southeastern Texas and southwestern Louisiana	Locally abundant	иА	Aesthetic	None
Aletris farinois L. Unicorn-root HABITAT: dry or moist peats, sands, gravels	Southeastern Texas	Eastern half of United States	Rare	None	None	None
Aletris aurea Walt. <u>Yellow star-grass</u> HABITAT: damp pine barrens, bogs, savannans	Eastern Texas	Southeastern United States	NA	None	None	None
Smilax pumila Walt. Sarsaparilla vine HABITAI. sandy soil and duff of pinelands, sand hills, stream beds, oak woods, wooded slopes	Eastern Texas	From Florida to Texas, north to South Carolina	Сопилол	Plant high value food and cover for wide variety of wildlife	Soil stabilizer	None
Smilax laurifolia L. Bamboo-vine HABITAT: swamps, seepage slopes, low ground	Eastern Texas	Southeastern United States	Common	Plant high value food and cover for wide variety of wildlife	Вгоиѕе	None

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			Abundance	Use for Wildlife Habitat	Other Values	Project Impact
Species	State Range		ווו עפאוחוו	Dlant biob	NA	Slightly
Smilax glauca Walt.	Eastern Texas	Much of eastern half of United	Common	value food		beneficial
HABITAT: dry to moist sandy thickets, open woods, fields, streams		States		for wide variety of wildlife		
**Smilax Bona-nox L. Cat-brier HABITAT: thickets, open woods, flood plains	Eastern and southern Texas	Florida to Texas, north to Missouri and Virginia	Сонтол	Protective cover and food for wildlife, including squirrel	Koot edible, ornamental	Slightly beneficial
**Smilax <u>hispida</u> Muhl. <u>Bristly green-</u> brier HABITAT: low woods and thickets along creeks	Eastern and north- central Texas	Florida to Texas, north to Virginia and Kansas	Uncommon	Protective cover and food for wildlife including, squirrel	ИА	Slightly beneficial
Smilax Smallii Morong. Green-brier rARBITAT: creeks and	Eastern Texas	Florida, Texas, and Arkansas, north to Virginia	Contraon	Protective cover and food for wildlife	Weed	Slightly beneficial
<pre>**Smilax rotundifolia L. Common green-brier HABITAT: moist to dry woodlands, bogs</pre>	Eastern Texas	Florida to Texas, north to Canada	Common	Protective cover for wildlife, food for wildlife	Muisance in thickets and gardens	Slightly beneficial
Smilax Walteri Pursh. Coral green-brier HABITAT: swampy or boggy thickets, low pinelands	Eastern Texas	Southeastern and Gulf coastal plains from New Jerscy to Texas	Rare	Protective cover and food for wildlife	Slight aesthetic	None
AMARYLLIDACEAE (amaryllis family) Hymenocallis Eulae Shinners Spider-lily HABITAT: in heavy soils near streams that periodically overflow, and seepage slopes	Southeastern Texas	Texas and Louisiana	Infrequent to rare	Seeds food for birds	Aesthetic, ornamental	None

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	Ctate Dance	United States Bange	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Hymenocallis Liriosme (Raf.) Shinners Spider-lily HABITAT: stream banks,	Eastern Texas	Louisiana, Texas, Arkansas, Oklahoma	Соптол	Bulbs eaten by wildlife	High aesthetic, cultivated in gardens	Slightly beneficial
Hymenocallis caroliniana (L.) Herb. Spider-lily HARITAT: wet sandv areas	Eastern and south- central Texas	Southeastern United States	NA.	Fruit eaten by birds	High aesthetic	None
Hypoxis hirsuta (L.) Cov. Star-grass HABITAT: open woods, meadows, prairies,	Eastern Texas	Eastern half of United States	NA	Low value for songbirds	Aesthetic	None
Hypoxis leptocarpa Engelm. Star-grass HABITAT: wet woods, swamps, bottomlands, along streams	Southeastern Texas	From North Carolina to Florida and Texas	Common	Low value for songbirds	Aesthetic	None
Hypoxis rigida Chapm. Star-grass HABITAT: low pine barrens, sandy soil in prairies, edges of bogs	Southeastern Texas	From Mcrth Carolina to Florida and Texas	Common	low value for songbirds	Aesthetic	None
Hypoxis sessilis L. Star-grass Star-grass Star-grass andy openings	Southeastern Texas	Throughout United States	Uncommon	Low value for songbirds	Aesthetic	None
Cooperia pedunculata Herb. Rain-lily HABITAT: NA	Eastern and southwestern Texas	Eastern and southwestern Texas and Mexico	NA	LIA.	Aesthetic	None
**Cooperia <u>Drummondii</u> Herb. Rain-lily HABITAT: cultivated	Widely distributed statewide	South-central United States	Common	NA	Aesthetic	None :
**Zephyranthos candida Herb. Autumn zephyr-lily HABITAT: cultivated	Liberty, Orange, and Jefferson Counties	NA, native to South America	NA	NA N	Cultivated	None
Habranthus texanus (Herb.) Steud. Copper 1i1; in water among grass, swales, moist pasture land	Eastern half of Texas	Endemic to Texas	Α A	NA NA	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Crinum americanum L. Southern swamp 111y HABITAT: swamps, marshes, aquatic vegetation	Southeastern and south coastal Texas	From Florida and Georgia to Texas	Uncommon	ИА	Aesthetic	Slightly beneficial
Polianthes virginica (L.) Shinners False aloe HABITAT: pine and mixed forest, open woods, gravelly slopes, old fields	Eastern Texas	Southeastern United States	NA	мА	Aesthetic	Rone
DIOSCOREACEAE (yam family) Dioscorea villosa L. Yam HABITAT: low moist woods and thickets	Eastern Texas	Eastern half of United States	NA	High food value	Roots edible	None
IRIDACEAE (iris family)						
Sisyrinchium minus Engelm. and Gray Blue-eyed grass HABITAT: sandy or silty soil	Southeastern Texas	Coastal plains of Texas and Louisiana, introduced elsewhere	Common	Moderate to low food value for gamebirds	Aesthetic	None
Sisyrinchium rosulatum Bickn. Blue-eyed grass HABITAT: weedy along roadsides and old fields	Southeastern Texas	Florida to Texas, north to North Carolina, Arkansas	Contrors	Moderate to low food value for gamebirds	Aesthetic	None
Sisyrinchium exile Bickn. Blue-eyed grass HABITAT: weedy along roadsides and old fields	Southeastern Texas	Florida to southeastern Texas	Common	Moderate to low food value for gamebirds	Aesthetic	None
Sisyrinchium sagittiferum Bickn. Blue-eyed grass HABITAT: low wet areas	Eastern Texas	Eastern Texas Louisiana	Common	Moderate to low food value for gamebirds	Aesthetic	None
Sisyrinchium albidum Raf. Blue-eyed grass HABITAT: open woods, exposed areas	Eastern Texas	Eastern half of Texas	Common	Moderate to low food value for gamebirds	Aesthetic	None

			Abundance	Use for	Other Values	Project Impact
Spiral	State Range	United States Range	10 Keg 10n	101 110 1110 1111 1011 14 1011 14 1011 14 1011 14 1011 14 1011 14 1011 14 1011 14 1011 14 1011 14 1011 14 1011	Austratic	None
Sisyrinchium angustifolium Mill. Blue-eyed grass HABITAT: low wet areas	Eastern Texas	Florida to Texas, north to southeastern Newfoundland, southern Quebec, southern Ontario, Indiana, Illinois, Missouri, and eastern Kansas	Common	Moderate to low food value for gamebirds		,
**Sisyrinchium pruinosum Bickn. Blue-eyed grass HABITAT: clay and sandy clay on roadsides and	Coastal prairies of Texas	Oklahoma, Arkansas, and Texas	Сопипол	Moderate to low food value for gamebirds	Aesthetic	9 5 5 8
Sisyrinchium ensigerum Bickn. Blue-eyed grass Huestone, or	Grand Prairie, Edwards Plateau, and south Texas plains	Texas, Oklahoma, and New Mexico	Common	Moderate to low food value for gamebirds	Aesthetic, may be cultivated	None
**Sisyrinchium Langloisti Greene Blue-eyed grass	westward Eastern oak belt and pine belt of Texas	Louisiana, Arkansas, Mississippi, and Texas	Сомпоп	Moderate to low food value for gamebirds	Aesthetic	None
**Iris virginica L. Southern blue-flag	Eastern Texas	Florida to Texas, north to eastern Virginia	Common	Flowers visited by humringbirds	Aesthetic	Slightly adverse
marshes and pinelands iris hexagona Walt.	Southeastern Texas	Texas and Louislana	Common	Nector for hummingbirds	High aesthetic	None
##Iris brevicaulis Raf. Shortstem Iris	Eastern Texas	Central United States	Uncommon	Flowers visited by hummingbirds	High aesthetic	Slightly adverse
HABITAT: damp woods, marshes, and bottomlands Belamcanda chinensis (L.) DC. Blackberry 111y HABITAT: pastures,	Mostly in East Texas	From Georgia to Texas, Kansas, and Connecticut	Uncommon	Seeds eaten by birds	Aesthetic	None
roadsides, unickets, hillsides Remastylis <u>geminiflora</u> Nutt. Celestial 111y HABITAT: clayey soils, limestone areas	North-central to southern Texas	Texas to Missouri and Kansas	Uncommon	ИА	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Eustylis purpurea (Herb.) Engelm. and Gray Purple pleat-leaf HABITAT: sandy soils in open woods and grassy areas	Eastern and southern Texas	Arkansas, Louisiana, Oklahoma	Соптол	NA	Aesthetic	None
CANNACEAE (canna family) Canna indica L. Indian-shot HABITAI: cultivated and escaped in lowland	Gulf coastal plains	Cultivated Florida to Texas, native of East Indies	Uncommon	NA	Cultivated, aesthetic	None
MARANTACEAE (arrowroot family) Thalia dealbata Roscoe Powdery thalia HABITAT: water of ditches, edges of ponds and swamps	Eastern and southeastern Texas	Southeastern United States	Common	Slight seed use	Soil and bank stabilization	Slightly beneficial
BURMANNIACEAE (burmannia family) Burmannia biflora L. Burmannia HABITA: moist woodlands	Eastern Texas	Florida, north to Viginia and west to Texas	Uncomnon	и	Aesthetic	None
Burmannia capitata (Walt.) Mart. Burmannia HABITAI: moist woodlands and bogs	Eastern Texas	Florida, north to North Carolina and west to Texas	Uncommon	NA	Aesthetic	None
Apteria aphylla (Nutt.) Barnh. Nodding-nixie HABITAT: decaying leaves of moist woods on edge of bogs	Eastern Texas	Florida and Georgia to Texas	Rare	VV	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
ORCHIDACEAE (orchid family)						2004
Cypripedium Calceolus L. Yellow lady's-slipper HABITAT: hardwood slopes	Eastern Texas	Eastern half of northwestern United States	On Texas rare and endangered plant list	нА	Aesthetic, scientific	None
Habenaria repens Nutt. Water-spider crchid HABITAT: streams, ditches, swamps, on margins of ponds, lakes	Central and southeastern Texas	From Rewfoundland; south to Georgia, west to Texas, Arkansas, Missouri, Illinois, Wisconsin, and Minnesota	Conmon	нА	Aesthetic	Slightly beneficial
Habenaria Blephariglottis (W111d.) Hook. White fringed orchid HABITAT: marshes, meadows, edges of swamps and depressions in savannahs and prairies	Southeastern Texas	Eastern half of United States	Locally abundant	VII.	High aesthetic	None
Habenaria ciliaris (L.) R. Br. Yellow fringed orchid HABITAT: moist woodlands, along streams, scepage slopes in forests, open areas, bogs, prairies	Eastern and southeastern Texas	Nuch of eastern half of United States	YII	ri A	High aesthetic	Unknown
Habenaria cristata (Michx.) R. Er. Crested fringed orchid HABITAT: moist woodlands, along streams, seepage slopes in forests, open areas, bogs, prairies	Eastern and southeastern Texas	Southeastern United States	Rare	H,A	High aesthetic, scientific	None
Habenaria flava (L.) R. Br. Southern rein-orchid HABITAT: in mud of densely wooded floodplain swamplands, thickets, wet savannahs, marshes	Eastern and southeastern Texas	Southeastern United States	Uncommon	ия	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Habenaria clavellata (Michx.) Spreng. Green rein-orchid HABITAT: water or at edge along streams in forest, swamps, wooded seepage slopes, ravines	Eastern Texas	Eastern half United States	Unco mmon	ИА	Aesthetic	None
Habenaria nivea (Nutt.) Spreng. Snowy orchid HABITAT: wet prairies, savannahs and bogs	Southeastern Texas	Southeastern and Gulf coastal plains from New Jersey to Texas, and Arkansas	Соптол	NA	Aesthetic	None
Listera australis Lindl. Southern tweyblade HABITAT: in humus, on mosses of low moist woods, ravines along streams	Southeastern Texas	Much of eastern half of United States	Uncommon	на	Aesthetic	None
Triphora trianthophora (Sw.) Rydb. Three birds orchids HABITAT: leafmold of hardwood forest	Eastern Texas	Eastern half of United States	Abundant	ИА	Assthetic	None
isotria verticillata (Willd.) Raf. Whorled pogonia HABITAT: along streams, on slopes in hardwood forest	Eastern Texas	Eastern half of United States	On Texas rare and endangered plant list	на	Aesthetic, scientific	None
Pogonia <u>ophioglossoides</u> (L.) Ker. Rose pogonia HABITAT: swamps, bogs, marshes, wet savannahs, prairies, seepage slopes	Eastern and southeastern Texas	Eastern half of United States	Uncom on	НА	Aesthetic	None
Calopogon barbatus (Walt.) Ames Bearded grass-pink HABITAT: moist acid sandy soils, near bogs, swamps, marshes, moist open woodlands	Eastern Texas	Along the Atlantic seaboard to Florida, west along the Gulf coast to eastern Texas	On Texas rare and endangered plant list	NA	Aesthetic, scientific	None

	F 1 2 4 7 7 8 8 8 8 8	United States Rance	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Species Calopogon pulchellus (Salisb.) R. Br.	Eastern and southeastern Texas	Eastern half United States		NA	Aesthetic	None
Grass-pink HABITAT: depression in savannahs and prairies, marshes, swamps, bogs				;	4	9
Ponthieva racemosa (Malt.) Mohr Shadow-witch HABITAT: along streams in woods, near muddy sloughs	Eastern and southeastern Texas	Southeastern Virginia, south to Florida, west to Texas	Uncommon	Z.	Aestnetic	
**Spiranthes vernalis Engelm. and Gray Spring ladies' tresses HABITAT: wet areas, fresh	Eastern third of Texas	Eastern half United States	Cormon	Seeds eaten by birds	Aesthetic	Slightly bereficial
Spiranthes cernua (L.) Rich, Modding Tadies' tresses HABITAT: swamps, wet woods, stream bottoms,	Central and eastern Texas	Eastern half United States	Common	Seeds eaten by birds	Aesthetic, roadside wildflower	None
Spiranthes ovalls Lindl. Oval ladies tresses HABITAT: moist shady woods, edges of thickets,	Horth-central and eastern Texas	Southeastern United States	On Texas rare and endangered plant 11st	Seeds eaten by birds	Aesthetic, scientific	None
Spiranthes gracilis (Bigel.) Beck Green-lip ladies' tresses Woods, gravelly soils, open-wooded slopes,	North-central, eastern, and southeastern Texas	Eastern half United States	Uncommon	Seeds eaten by birds	Aesthetic	7000 0000 0000 0000
Spiranthes Gray! Ames Little ladies tresses HABITAT: damps sandy soil of shady forest, well drained wooded slopes,	Eastern and southeastern Texas	From Massachusetts, south to south- central Florida, west to Kentucky, Arkansas, and Texas	Uncommon	Seeds gaten by birds	Aesthetic	None

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Species	State Range	United States Range	Abundance in kegion	Use for Wildlife Habitat	Other Values	Other Values Project Impact
Spiranthes praecox (Walt.) Wats. Grass-leaved ladies' tresses HABITAT: low wet grassy pinelands and flatwoods, wet prairies, savannahs, meadows, bogs, and coastal	Eastern and southeastern Texas		Uncomnon	Seeds eaten by birds	Aesthetic	None
Spiranthes longilabris Lindl. Glant spiral-orchid HABITAT: wet grassy pine barrens and flatwoods, swamps, marshes, wet savannahs, prairies, bons	Southeastern Texas	Eastern North Carolina, south to Florida, west to Texas	Common	Sceds eaten by birds	Aesthetic	None
Malaxis unifolia Michx. Green adder's mouth HABITAI: moist wooded slopes, along streams, ravines, mixed pine- hardwood forest	Eastern Texas	Eastern half of United States	Unconnon	Rone	Slight desthetic	None
Tipularia discolor. (Pursh) Hutt. Crippled crane-fly HABITAT: humus of rich damp woods, along streams, pinc-hardwood	Eastern and southeastern Texas	Northeastern and southeastern United States	Uncounton	ilone	Slight aesthetic	None
**Corallorhiza Wisteriana Conrad Spring coral-root HABITAT: upland forested slopes and river banks	Eastern half of Texas	Southeastern, southern, west-central United States	Uncommon	Ноле	Slight aesthetic	Slightly adverse
**Saururus cernuus t. [Izard's tail HighIAT: water on muddy soils of lakes, swamps,	Eastern and southeastern Texas	Central United States	нА	Eaten by wood ducks	Aesthetic	Moderately beneficial

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				Use for Wildlife Habitat	Other Values P	Project Impact
Charles	State Range	United States Range	5	bide twins	Soil	Very
**Salix nigra Marsh. Black willow HABITAT: moist soil	Eastern two-thirds of state	Eastern half of United States	Conmon b b m	bark are food for Smany kinds of birds and manmals	stabilization, ornamental, low commercial	beneficial
Populus deltoides Marsh. Eastern cottonwood HABITAT: alluvial soils	Statewide	Eastern half of United States	Contaion C	Cover; buds, twigs, H bark are food for v many kinds of birds and mammals c	Historical value, ornamental, occasionally browsed by cattle	Very beneficial
Populus <u>Sargentii</u> Dode Plains cottonwood HABIIAT: sandy alluvial soil along streams and rivers	Cooke and Montague Counties in north- central Texas	Central United States	Common	Cover; buds, twigs, bark are food for many kinds of birds and mammals	Ornamental	None
MYRICACEAE (wax-myrtle or bayberry family) Myrica heterophylla Raf. Wax-myrtle HABITAT: in bogs and	family) Eastern Texas	Coastal areas, New Jersey to Texas	NA	Cover	Ornamental, wax used for making candles	None
along streams in woods and thickets **Myrica cerifera L. Wax-myrile HABITAI: along streams,	Eastern Texas	From Florida, vest to Texas and north to New Jersey, and Arkansas	Соптоп	Fruit eaten by birds, especially bobwhite, quail, and turkeys	Ornamental	Slightly beneficial
Myrica pusilla Raf. Wax-myrtle HAX-tor dry pine- hardwoods	Eastern Texas	From Florida, west to Texas and north to south Delaware and Arkansas	NA A	Cover	Ornamental	None
LEITNERIACEAE (corkwood family) Leitneria floridana Chapm. Corkwood HABITAT: ',rackish or fresh water swamps and thickets	Southeastern and south-central Texas	Florida to Texas, north to Georgia and Missouri	On Texas rare and endangered plant list	Cover	Cork substitute, scientific	None

Project Impact	Moderately adverse	None	Slightly adverse	Slightly adverse	Slightly adverse	Slightly adverse	Slightly adverse
Other Values	Nut edible, furniture, ornamental	Nut edible, low commercial value, aesthetic	Historical value, nut edible, ornamental	Fuel	Historical value, nut edibie, low commercial	Nut edible, wood products	Nut edible, wood products, fuel
Use for Wildlife Habitat	Cover	Nut high food value for variety of game mammals and birds	Nuts eaten by many bird species, squirrels, opossums, raccoons; plant foliage eaten by rabbits and browsers	Cover; squirrel food	Nut high value food for many game mammals and birds; cover	Nut food for wildlife; cover	Nut food for wildlife; cover
Abundance in Region	Common	On Texas rare and endangered plant list	Common	Соттол	Common	Common	NA
United States Range	Eastern half of United States	Eastern South Carolina to south- eastern Oklahoma, eastern Texas	South-central United States	Eastern half of United States	Southeastern United States	Eastern half of United States	Eastern half of United States
State Range	Eastern Texas	Eastern Texas	Central and northwestern Texas	Eastern Texas	Eastern Texas	Eastern Texas	Eastern Texas
Species	JUGLANDACEAE (walnut family) **Juglans nigra L. Black walnut Mondlands	Carya myristicaeformis (Michx. f.) Nutt. Nutmeg hickory HABITAT: river banks	**Carya illinoinensis (Mang.) K. Koch. Pecan HABITAT: bottomlands	**Carya cordiformis (Wang.) K. Koch Bitternut inckory HABITAT: low wet woods near S' reams and swamps,	**Carya aquatica (Michx. f.) Nutt. Water hickory HABGIAT: periodically	**Carya ovata **Carya ovata (Mill.) K. Koch Shagbark hickory HABITAT: rich woodlands, bottoms, slopes, often	**Carya tomentosa Nutt. Mockernut HABITAT: dry to moist woods

Species	State Rance	Instant Change	Abundance	Use for		
**Carya leiodermis Sarg.	Southeastern Texas	From Texas and	In Region	Wildlife Habitat	Other Values	Project Impact
HABITAT: Jow wet swamps and woods		Arkansas to Mississippi		food for many game mammals and birds;	low commercial	Signity beneficial
**Carya texana Buckl. Black hickory HABITAT: dry sandy woods, rock slopes	Eastern Texas	South-central Texas	Uncommon	Cover	Fuel	Slightly adverse
BETULACEAE (birch or hazel-nut family) **Carpinus caroliniana Walt. Blue-beech HABITAT: rich woods and bottomlands along streams	mily) Eastern Texas	Southeastern United States	Uncommon	Cover, food for squirre ^l , deer	Aesthetic	Moderately adverse
**Ostrya virginiana (M171.) K. Koch. American hop-hornbeam HABITAT: moist or dry woods	Eastern Texas	Southeastern United States	Соптоп	Cover; focd for squirrel	Wood producis	Moderately adverse
**Betula nigra L. River birch HABITAT: along streams and bottomland	Eastern Texas	Throughout most of eastern United States	Common	Cover; food for squirrel	Historical value	Moderately adverse
**Alnus serrulata (Ait.) Willd. Smooth alder HABITAT: along streams and swamps and boggy areas	Eastern Texas	Most of eastern United States	Common	Cover	Aesthetic	Moderately adverse
FAGACEAE (beech family) **Fagus grandifolia Ehrh. Beech HABITAT: rich hardwood forests, especially on slopes along streams	Eastern Texas	From Florida, west to Texas and north to southeastern Massachusetts, Ohio, Indiana, Illinois	Common	Cover; food for squirrel and deer	Nut edible, lumber	Moderately adverse
Castanea <u>pumila</u> (L.) Mill. Chinquapin HABITAT: sandy open wood- lands and thickets	Eastern Texas	From eastern Massachusetts, south to Florida to Tennessee, Arkansas and Texas	Uncortanon	Cover; food for deer, squirrel, and turkey	Historical value, nut edible	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Castanea alnifolia Nutt. Downy chinquapin HABITAT: rolling hillsides and often woodlands and thickets	Eastern Texas	Southeastern United States	Uncommon	Cover and food for deer, squirrel, and turkey	Nuts edible	None
** <u>Quercus macrocarpa</u> Michx. Bur oak HABITAT: moist forest along streams	Eastern and central Texas	Texas to Atlantic and north to New Brunswick and Saskatchewan	Common	Acorns eaten by squirrels, deer and birds; cover	Lumber, crossties, livestock browse, fuel	Moderately adverse
**Quercus lyrata Walt. Overcup oak HABITAT: wet poorly drained clay soil	Eastern Texas	Texas, east to the Atlantic, north to Maryland and Missouri	Соптоп	High value for game food, young plants browsed by squirrel and deer, cover	Low commercial, fuel	Slightly adverse
**Quercus alba L. White oak HABITAT: moist forest	Eastern Texas	Texas to Atlantic, north to Canada	Common	Acorns eaten by squirrel, deer, turkey, and other birds; folage eaten by deer	Nut edible, lumber, livestock browse,	Slightly adverse
**Quercus Prinus L. Chestnut oak HABITAT: moist forest	Eastern Texas	Eastern Texas to Atlantic, north to Delaware and Missouri	Uncommon	Acorns eaten by squirrel, deer, and birds; cover	Nut edible	Slightly adverse
**Quercus stellata Wang. Post oak HABITAT: dry uplands	Eastern and central Texas	Texas to Atlantic, north to northern Massachusetts and Kansas	Abundant	Acorns eaten by wildlife including deer, turkey, squirrel, many birds; cover	Fuel, lumber, ornamental	Slightly adverse
**Quercus similis Ashe Bottomland post oak HABITAT: wet stream bottom	Eastern Texas	Texas, southern Arkansas and Louisiana south to South Carolina	Соптол	Acorns eaten by squirrel, deer, and birds; cover	Lumber, fuel, ornamental	Slightly adverse
Quercus Boyntonii Beadle Boyntonii HABITAT: deep sand in loblolly pine forests	East-central Texas	Texas east sporadically to Atlantic	Locally abundant	food for squirrels, cover	Aesthetic	None
Quercus Margaretta Ashe Sand post oak HABITAT: low woodlands in deep sandy soil	Central and eastern Texas	Texas east to the Atlantic	Common	food for squirrels; cover	Aesthetic	None

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		00000	Abundance	Use for Wildlife Habitat	Other Values	Project impact
Species	State Range	United States Range	Towns of	Acorne important	NA	Slightly
**Quercus sinuata Walt. Bastard oak HABITAT: moist forests	Eastern Texas and west along rivers	Texas east to South Carolina		5 = 6 0	i.	adverse
Quercus virginiana Mill. Live oak HABITAT: near coast, sandy loam to heavier clay; can tolerate considerable	Eastern and southern Texas	From Texas, east to Atlantic, north to Virginia	Uncommon	Acorns eaten by deer, squirrls, chipmunks, turkey, and other birds; cover	Ornamental	None
salinity Quercus minima (Sarg.) Small Minima oak HABITAT: deep sands behind	Eastern and central Texas Gulf coast	North Carolina coastal to Texas	Common	Food for squirrels, cover	Aesthetic	None
the beach areas **Quercus incana Bartr. Sandjack oak HABITAT: sandy upland timber belt	Eastern and central Texas	Coastal plains from Virginia to Texas	Common	Acorns eaten by birds, small mammals, deer and squirrel	Fuel	Slightly adverse
**Quercus laurifolia Michx. Laurel oak HABITAT: wet forest and	Southeastern Texas	Texas east to Atlantic	Common	Acorns eaten by squirrels, deer and birds; cover	Historical	Slightly adverse
along streams Quercus hemisphaerica Bartr. Laurel oak HABITAT: sandy woodlands, sometimes forming mottes on sandy prairies often	Along the Gulf coast	Texas east to Atlantic	Соттоп	Food for squirrels, cover	Aesthetic	None
<pre>4*Quercus Phellos L. Willow oak HABITAT: moist bottomland of clay or loam</pre>	Eastern Texas	Eastern Texas to Atlantic, north to Illinois and New York	Conmon	Acorns eaten by deer, squirrels, chipmunks, turkey, and other birds; cover	Ornamental, lumber	Slightly adverse
**Quercus <u>nigra</u> L. Water oak HABITAT: wet forest, scattered due to salt intolerance	Eastern Texas	Texas to Atlantic states and north to Missouri and Deleware	Uncommon	Acorns eaten by wildlife including water-fowl, squirrels, deer	Ornamental, lumber, fuel	Slightly beneficial

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Quercus Shumardii Buckl. Shumard <u>red oak</u> HABITAT: waterways, moist forests	Eastern Texas	Texas to Atlantic and north to Missouri and Ohio	Сопино п	Acorns eaten by birds, small mammals, deer and squirrel	Lumber, historical, fuel	Moderately adverse
**Quercus texana Buckl. Texas red oak HABITAT: limestone upland slopes	Central Texas	Endemic to Texas	Соттоп	Acorns eaten by birds, small mammals, deer and squirrel	Lumber, shade tree, ornamental	Slightly adverse
**Quercus falcata Michx. Southern red oak HABITAT: moist forest	Eastern Texas	Texas to Atlantic, north to New Jersey and Missouri	Uncommon	Acorns eaten by birds, small mammals, deer and squirrel	Lumber, shade tree, ornamental	Slightly adverse
** <u>Quercus marilandica</u> Muenchh. Blackjack oak HABITAT: well drained areas	Central and east Texac	Texas to Atlantic, north to New York and Kansas	Uncommon	Acorns eaten by deer, squirrel, chipmunks, and birds; cover	Lumber, fuel, ornamental	Slightly adverse
**Quercus velutina Lam. Black oak HABITAT: upland forests	Eastern Texas	Texas to Georgia and north to Louisiana and Vermont	Солипол	Acorns important food for many birds and small mammals, deer browse twigs and foliage and eat acorns	Lumber	Slightly adverse
ULMACEAE (elm family)						
**Celtis laevigata Willd. Texas sugarberry HABITAT: sandy loam, rocky or alluvial soil along streams in woodlands	Eastern two-thirds of Texas	Florida to Oklahoma and Texas, north to Virginia, Illinois, M1°souri, and Kansas	Conmon	Birds eat fruit, cover, food for squirrels	Ornamental, moderate commercial value	Very adverse
** <u>Celtis</u> reticulata Torr. Netleaf hackberry HABITAT: limestone hills, breaks and rocky canyon slopes and arroyos, mesquite groves and water courses	Statewide	Western half of United State	Соптол	Birds eat fruit, cover, food for squirrels	Ornamental, moderate commercial value	Moderately adverse

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			Abundance	Use for Wildlife Habitat	Other Values	Project Impact
	State Range	United States Kange	ווו עפלוסוו	Ewilit paten by	Ornamental,	None
Celtis occidentalis L. Southern hackberry HABITAT: on sandy or rocky banks of rivers, in alluvial soils in open	Eastern two-thirds of Texas	Florida to Oklahoma and Texas, north to Virginia, Illinois, Missouri, and Kansas	Common	Fruit eacen by birds, especially gallinaceous species; cover	historical value, fruit edible, low commercial	
wood and a rocky soils in canyons Celtis tenuifolia Nutt. Warf Hackberry HABITAT: on hardwood	Southeastern Texas	Southeastern United States	Common	Cover, food for squirrels	Aesthetic	None
slopes along streams in open woodlands **Ulmus crassifolia Nutt. Cedar elm	Central and southern Texas	Mississippi to Arkansas and Texas	Common	Cover, food for squirrels	Ornamental, shade tree	Moderately adverse
ravines and open slopes **Ulmus americana L. American elm HABITAT: moist soils of bottomlands and uplands	Eastern third of Texas	Eastern two-thirds United States	Соптиол	Fruit eaten by gallinaceous birds; twigs and leaves browsed by opossum, deer,	Ornamental, Shade tree, lumber	Moderately adverse
**Ulmus alata Michx. Winged-elm HABITAT: streams, woodlands, thickets	Eastern Texas	Southeastern Texas States	Соптол	rabbils Seeds, buds eaten by birds and mammals; cover	Historical value, ornamental, moderate commercial value	Moderately adverse
**Ulmus rubra Muhl. Slippery elm HARITAT: woodlands and	Eastern third of Texas	Eastern half of United States	Сопипоп	Cover, food for squirrels	Ornamental, shade tree, lumber	Very adverse
<pre>**planera aquatica (Walt.) J. F. Gmel. Water-elm HABIIAT: river bottoms, swamps, near lakes, scattered stands</pre>	Eastern Texas	Florida to Texas, north to south Illinois, and Kentucky	Locally abundant	Ducks eat fruit; seeds eaten by birds, mammals; cover	Historical value	Moderately adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
MORACEAE (mulberry family)					•	
**Morus alba L. White mulberry LASTIAT: woodlands and rocky	Eastern and central Texas	Widely introduced in United States, native of China	Common	Cover	Historical value, fruit edible	Slightly adverse
**Morus rubra Red mulberry HABITAT: upland woods and floodplains	Eastern and central Texas	Eastern half of United States	Соптоп	Food and cover for variety of wildlife including deer, squirrel, turkey	Fruit edible, beverages, mental	Slightly adverse
**Maclura pomifera (Raf.) Schneid. Osage orange HABITAT: fields, ravines, fencerows, waste places	Eastern half of Texas	Texas, Oklahoma, Arkansas; introduced in southern states	Connion	Cover, fruit food for wild- life including squirrel	Windbreak, hedges, source of dye	Slightly adverse
URTICACEAE (nettle family)						
**Parietaria pensylvanica Muhl. Hammerwort HABITAT: shaded banks and near large boulders	Eastern two-thirds of Texas	Most of eastern United States	Uncommon	None	Stings on contact	Moderately adveise
Boekmeria nivea (L.) Gaud. Ramie HABITAT: in waste places and cultivated soils and along roadsides	Southeastern Texas, west to Edwards Plateau	From Florida to Texas, north to South Carolina, native of Asia	Common	НА	Indicator of waste land	None
** <u>Urtica urens</u> L. <u>Dog nettle</u> HABITAT: woodlands and waste places	Southern third of State	Throughout, native of Europe	Common	NA	Poisonous to touch	Moderately adverse
**Urtica chamaedryoides Pursh. Nettle HABITAT: humus of wooded slopes, in bottomlands, rocky slopes	Central and southern Texas	From Florida to Texas and Mexico, north to West Virginia, Kentucky, Missouri, and Oklahoma	Uncommon	Seeds sometimes eaten by birds	Stings to touch	Moderately adverse
Pilea pumila (L.) Gray Richweed HABITAT: moist or wet rich soils of woods, especially in seepages along streams	Eastern Texas	Southeastern United States	Сопипол	NA	None	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values F	Project Impact
VISCACEAE (mistletoe family) **Phoradendron tomentosum (DC.) Gray Mistletoe HABITAT: parasitic on woody species	Statewide	Southern half of United States	Сошто п	Fruit food for wildlife	High cultural, aesthetic, parasite	Slightly adverse
ARISTOLOCHIACEAE (birthwort family) Aristolochia reticulata Nutt. Texas dutchman's-pipe HABITAT: in humus of pine- hardwood forest, pine- savannahs and rocky	Eastern Texas	Texas, Louisiana, and southwestern Arkansas	Uncommon	ИА	Aesthetic	None
**Aristolochia Serpentaria L. Virginia dutchman's-pipe HABITAT: moist or dry upland woods, about ledges and on wooded rocky slopes	Edwards Plateau, and eastern Texas	Southeastern United States	On Texas rare and endangered plant list	NA	Aesthetic, scientific	Slightly adverse
**Aristolochia tomentosa Sims Woolly dutchman's pipe HABITAT: in shaded areas along streams, in bottom- land forests, along rivers, and in post oak woods	North-Central and east-Central Texas	From Florida to Texas, north to Oklahoma, Missouri, Illinois, and North Carolina	Uncommon	NA	Aesthetic	Moderately adverse
**Eriogonum longifolium Mutt. Wild buckwheat HABITAT: sandy soil, edges	Eastern Texas	South-central United States	Сопипол	Moderate food value	Forage	Slightly adverse
Eriogonum annuum Nutt. Wild buckwheat HABITAI: sandy to gravelly soils in open grassland or more commonly in disturbed places	Throughout state except for inter- mediate Gulf coastal plains	Central United States	Common	Moderate food value	Aesthetic on poor land	None

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Southeastern Texas Eastern half of United States
Eastern half of Most of United Texas States except far western
Scutheastern Texas Louisiana, Texas to Mexico
Eastern, south- eastern, and north- central Texas

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Rumex pulcher L. Fiddle dock HABITAT: on seasonally moist soil	Eastern half of TExas	Widespread in warm temperate regions	Соптоп	Seeds caten by birds and mammals, plants browsed	Browse for livestock, foliage edible	Slightly adverse
Polygonella polygama (Vent.) Engelm. and Gray October-flower HABITAT: infrequent in loose sand	Eastern and southeastern Texas	Coastal states Virginia to Texas	Uncommon	Low food value	None	None
Polygonella americana (Fisch. and Mey.) Jointweed HABITAT: local in loose sands	Eastern, south- eastern, and north- central Texas	Southwest-central United States	Locally common	Low food value	None	None
Polygonum <u>aviculare</u> L. Knotweed HABITAT: NA	Widespread but local nearly throughout Texas, except extreme south	Widespread in temperate regions	Сомтоп	Seeds important food of some gamebirds, and songbirds; as well as small mammals	None	None
Polygonum ramosissimum Michx. Knotweed HABITAT: seasonally wet low areas	Widespread though local over the state, absent from Rio Grande plains	Eastern United States	Locally common	Seeds important food of some gamebirds, and songbirds; as well as small mammals	None	None
Polygonum tenue Michx. Knotweed HABITAT: sterile oak woods	Eastern half of Texas	Eastern half of United States	Rare	Seeds important food of some gamebirds, and songbirds; as well as small mammals	None	None
**Polygonum sagittatum t. Arrow-vine, tearthumb HABITAT: at margins of lakes, Swamps, marshes and bogs	Eastern Texas	Newfoundland to Saskatchewan, south to Florida and Texas	Uncommon	Seeds and plants food for upland gamebirds; song birds; fur, game, and small mammals	None	Moderately beneficial
**Polygonum cristatum Engelm. and Gray Knotweed HABITAT: edges of woods	Eastern and north- central Texas	Texas, Arkansas, Louisiana, and Oklahoma	Uncommon	<pre>Important food for some gamebirds, songbirds, and small mammals</pre>	None	Slightly beneficial

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Polygonum Convolvulus L. Black bindweed HABITAT: usually in disturbed soil	State kange Throughout Texas except extreme Trans-Pecos	Widely advanced, native to Europe	Uncommon	Seeds important food of some gamebirds, and songbirds; as well as small mammals	Weed	None
**Polygonum <u>virginianum</u> L. Jump seed HABITAT: rich woodlands	Eastern, south- eastern, and north- central Texas	Most of eastern United States	Locally common	Seeds important food of some game- birds, songbirds, and small mammals	Aesthetic	Slightly adverse
**Persicaria coccinea (Muhl.) Greene Smartweed HABITAT: streams, rivers, lakes, and ditches	Eastern Texas	Throughout North America	Common	Seeds eaten by waterfowl, shorebirds, game-birds, songbirds, and small mammals; plants by muskrats, raccoons, squirrels	None	Moderately beneficial
**Persicaria bicornis (Raf.) Nieuw. Pink smartweed HABITAT: wet areas, ditches, disturbed	Statewide	Nebraska to Colorado, south to Texas; California	Соптоп	ИА	Weed	Moderately beneficial
habitats **Persicaria lapathifolia (L.) Small Smartweed HABITAT: wet areas and disturbed habitats	Statewide	Throughout North America, native to Europe	Cormon	Seeds eaten by waterfow!, shorebirds, game-birds, songbirds, and small mammals; plants by muskrats, raccoons, squirrels	Weed	Moderately beneficial
**Persicaria densifiora (Meisn.) Moldenke Persicaria	Along the coastal plains	Through North America, native to Europe	Uncommon	NA	Soil stabilizer	None
HABITAT: wet areas **Persicaria punctata (Ell.) Small Smartweed HABITAT: wet areas	Statewide, but more common in eastern Texas	Throughout North America	Солиноп	Seeds eaten by waterfowl, shorebirds, gamebirds, songbirds, and small mammals, plants by muskrats, raccoons, squirrels	Source of fish toxin	Slightly beneficial

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Snortes	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Persicaria setacea (Baldw.) Small Persicaria HABITAT: wet areas	Eastern Texas, and Gulf coast	Southeastern United States and southward	NA	на	Soil stabilizer	Unknown
**Persicaria hydropiperoides (Michx.) Small Smartweed HABITAT: wet areas	Statewide	Throughout North America	Соптол	Seeds eaten by waterfowl, shorebirds, game- birds, songbirds, and small mammals; plants by muskrats, raccoons, squirrels	None	Moderately beneficial
**Brunnichia ovata (Walt.). Shinners Eardrop vine HABITAT: on the edge of and in woods near streams, lakes, and ponds	Eastern Texas	Gulf states, north to Hissouri, Tennessee, and South Carolina	Uncommon	HA	None	Moderately beneficial
CHEFOPCDIACEAE (goosefoot family) **Chenopodium ambrosioides L. Wormseed HABITAT: waste places, cultivated ground, shores, salt marshes	Statewide	Most of United States	Comiton	Seeds and plants eaten by a variety of birds and mammals	Herb tea	Slightly beneficial
**Chenopodium Berlandieri Moq. Pitseed goosefoot HABITAT: dry soils	Coastal plain	Southeastern ar: Gulf coastal plains Horth Carolina to Texas and Mexico	Conmon	Seeds are eaten by a variety of birds and small mammals	Weed	None
**Salicornia Bigelovii Torr. Bigelovii's glasswort HABITAT: shallow water of salt marsh and low ridges; flats along coast	Coastal salt marshes and flats	Along Atlantic and Gulf coasts from Gove Scotia to Texas and Yucatan, California	Conmon	Plant food for waterfowl	Forage	None
**Salicornia <u>virginica</u> L. Glasswort HABITAT: brackish marsh	Coastal salt marshes and flats	Sea coastssouthern New Hampshire to Texas, Alaska to California	Common	Plant food for waterfowl	Forage	None
Suaeda linearis (Ell.) Moq. Sea blite HABITAT: salt marshes,	Coastal salt marshes and sandy areas	Coastal plains Maine to Texas	Common	Link in marsh food chain	Forage	None

	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
AMARANTHACEAE (amaranth family)					- :	:
Celosia nitida Vahl Albahaca Historis sandy soils in	Along coast	From Florida Keys to Texes and north- eastern Mexico	Locally abundant	Seeds important for birds	Aesthetic	None
**Amaranthus Palmeri Wats. Pigweed HABITAT: silty, sandy, gravelly soils, river hanks, ditches, gardens	Statewide	Kansas to California, south to Texas and Mexico	Conmon	High food value	Weed	None
**Amaranthus arenicola 1. M. Johnst. Sandhills amaranth HABIAT: sandhills, swales, dried ponds, roadsides and railroads	Statewide	Oklahoma and lowa to Texas and west to Colorado, Nevada, and New Mexico	Сопило п	High food value	Need	None
Amaranthus <u>Greggii</u> Wats. Pigweed HABITAT: coastal dunes and beaches along the	Jefferson County to Mexico	Texas and Mexico	Contrion	High food value	Dune stabilization	None
**Amaranthus spinosus L. Spiny pigweed HABITAT: waste ground, sandy loam soil	Eastern third of Texas, west to Dallas, Travis, and Cameron Countles	Eastern half of United States	Contrion	Seeds food for teal, gamebirds, songbirds, small mammals; plants eaten by rabbits	Weed	None
**Amaranthus cruentus L. Purple amaranth HABITAT: cultivated roadsides, waste places	Statewide	Widely introduced in United States	Common	Seeds important food of many birds and small rodents; plants eaten by rabbits and deer	мееd	None
**Amaranthus viridis L. Green amaranth HABITAT: waste places and beaches	Southern Texas and Rio Grande plains	Local in Gulf states, probably native to South America	Locally abundant	Seeds important food for songbirds and gamebirds, seeds and plants eaten by small mammals	Y!	None
**Acnida cuspidata Spreng. Southern water-nemp HABITAT: salt and marshy places	Gulf coast	Coastal plain from Florida to Texas	Convinon	Seeds food for waterfowl	Aesthetic	None

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			Abundance	Use for		10000
00000	State Range	United States Range	in Region	Wildlife Habitat	Other Values	Project impact
Acnida tamariscina (Nutt.) Wood	Statewide except extreme western	Central United States	Сопиноп	Seeds for waterfowl	Aesthetıc	None
Nuttall's water-nemp HABITAT: sandy fields and wastelands, chiefly in moist soils, swamps,	לפן ר ה					
Acanthochiton Wrightii Torr. Green stripe HABITAT: dunes, beaches	Southeastern Texas to plains country	Texas, New Mexico, and northeastern Arizona	NA	NA	NA	None
**Iresine rhizomatosa Standl. Bloodleaf HABIT, ': sandy alluvial soils, scattered	Scattered in eastern half of Texas, west to Denton and Comal Counties	Maryland to southern Illinois and Kansas, south to eastern Virginia, Alabama, Louisiana, and Texas	Uncommon	NA .	None	None
**Alternanthera philoxeroides (Mart.) Griseb. Alligator-weed HABITAT: in waste places, in ponds, streams, along some rivers, thrives in and around oil storage tanks, fresh water marsh	Coastal and southern Texas	Coastal plains, North Carolina to Florida, west to Louisiana and Texas	Abundant	Cover, low value waterfowl food	Becomes a noxious weed, in conjunction with water-hyacinth may clog canals, etc; rapid growth	Very beneficial
Froelichia gracilis (Hook.) Moq. Snake-cotton HABITAT: on gravel and on	Statewide except extreme eastern	lowa to Colorado, south to Arkansas, Arizona and Texas	Common	N A	Weed	None
**Froelichia Braunii Standl. Snake-cotton HARITAT: drv soils	Adventive to Texas	Texas north to Missouri and Illinois	NA	NA	Weed	None
**Froelichia floridana (Nutt.) Mog. Snake-cotton	Statewide	Southeastern United States	Contraon	NA	Aesthetic	anon N
**Froelichia Drummondii Moq. Snake-cotton HABITAT: sandy dry soils	Statewide	Southern Oklahoma, Texas	Common	NA	Weed	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Philoxerus vermicularis (L.) R. Br. Saltwater alligator weed HABITAT: saline soils and dunes, wet sands	Gulf coast and Rio Grande plains	Florida to Texas	Солипол	Seeds are high value songbird food, seeds and foliage food for variety of wildlife	Dune stabilization	None
Gomphrena dispersa Standl. Globe-amaranth HABITAT: waste and cultivated grounds	Coastal Texas	Florida and Texas to Mexico	Common	Seeds used by wildlife	Weed	None
Gomphrena decumbens Jaco. Globe-amaranth HABITAT: sandy soils, dry and waste grounds	Coastal Texas	Texas to Mexico	Common	N.A.	Soil stabilization	None
NYCTAGINACEAE (four-o'clock family)						
Nyctaginia capitata Choisy Scarlet musk-flower HABITAT: sandy or loam soil, roadsides and fields	Coastal Texas to Trans-Pecos and plains	From Texas and New Mexico to Mexico	Согтоп	IIA П	Aesthetic	None
Allionia incarnata L. Umbrella-wort HABITAT: dry hills and flats, dry sandy or gravelly soils, on lime- stone areas	Coastal Texas to the Trans-Pecos and plains	From southern California and Nevada to southern Utah and Colorado, south to Texas	i.A	r,	Soll stabilization	None
**Mirabilis hirsuta (Pursh) MacM. Hairy four-o'clock HABITAT: dry, sandy ground, dry fields and	Western and north- western Texas	Central United States	IIA	Flowers visited by hummingbirds and bees	Slightly aesthetic	٥ م
Mirabilis collina Shinners Wild four o'clock HABITAT: sandy thickets and on hillsides	East Texas	Endemic to Texas	Locally common	Nectar for hummingbirds and bees	Slightly aesthetic	None
**Mirabilis nyctaginea (Michx.) MacM. Wild four-o'clock HABITAT: dry soils, lime- stone gravels, sandy	Post oak belt and western cross timbers	Much of central half of United States	NA	Nectar for hummingbirds and bees	Slightly aesthetic	Unknown

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Commicarpus scandens (L.) Standl. Climbing wartclub HABITAT: thickets and hillsides, canyons and	Coastal Texas and the Rio Grande valley and plains to the Trans- Pecos	Texas to southeastern Arizona	NA	NA	Weedy	None
**Boerhaavia coccinea Mill. Scarlet spiderling HABITAT: river banks, fields, waste places RATACFAF (saltwort family)	Southern and western Texas	Florida to southern and western Texas, and southeastern California	Соптоп	Seeds eaten by quail and small rodents, plants by rabbits	Weed	Moderately adverse
**Batis maritima L. Maritime saltwort HABITAT: in salt flats and along muddy flats of seashore	Southern Texas	Widespread on coastal stands	Common	Cover for shore animals	Moderate commercial value, shore stabilization	None
<pre>PHYTOLACCACEAE (pokeweed family) **Aggdestis clematidea DC. Rockroot HABITAT: waste places</pre>	East-central Texas	Florida and Texas	ИА	Seeds eaten by birds	Weed	Slightly beneficial
**Rivina humilis L. Pigeon-berry HABITAT: moist or alluvial soils, chaparral hills, usually in shade	Statewide	Gulf coastal plains of United States	Uncommon	Fruit eaten by wildlife	Aesthetic, sometimes grown is an ornamental, used as a dye	Slightly adverse
**Phytolacca americana L. Pokeweed HABITAT: rich low ground, roadsides	Statewide	Southeastern and eastern United States	Сопию	Seeds are high value food for many forms of wildlife, narcotic effect on birds, bears	Unpleasant odors, large poisonous roots, source of dyes, very young sprouts when properly and safely prepared are used as a	Slightly beneficial

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
AIZOACEAE (carpet-weed family)	7 2 7 7 4		s (mark)		Mood dupo	None
**Moliugo verticillata L. Indian chickweed HABITAT: waste places, cultivated ground, open sandy woods and brushlands, dunes	Statewide	Inroughout United States		eaten by birds	stabilization	
Sesuvium maritimum (Walt.) 8.5.P. Sea purslane HABITAT: sandy beaches	Along the coast in southeastern Texas	From New York to Florida and Texas	Common	Cover for beach animals	Aesthetic	None
Portulaca umbraticola H.B.K. Purslane Portulaca embraticola H.B.K. Purslane PraintAt: sandy soils in praintes, mesquite thickets and salt marshes	Throughout most of Texas	Texas to Arizona	Сопямол	Seeds are high value food for many birds and mammals	Aesthetic	None
**Portulaca oleracea L. Purslane HABITAT: grassy slopes, dunes, salt marshes	Throughout most of Texas	Temporate America	Соптоп	Seeds are high value food for many birds and rammals	Ornamental, seeds sub- stituted for poppy seeds	None
Talinum parviflorum Nutt. Flame-flower HABITAT: sandy soil in woods and over rock outcrops	Most of Texas	Central United States	Соптоп	Large seeds eaten by wildlife	Aesthetic, edible root	None
Claytonia virginica L. Spring beauty HABITAT: sruy soil in rich woods, thickets, and clearings	Eastern third of Texas	Eastern half of United States	Common	Moderate food value	Aesthetic, root edible	None
CARYOPHYLLACEAE (pink family) Petrorhagia prolifer (L.) Ball & Heywood Childing pink HABITAT: scattered in grasses along roadsides and fields	Eastern Texas	An escape in various parts of North America, native of Europe and northern Africa	Uncommon	A	Roadside flowers	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Saponaria officinalis L. Soapwort HABITAT: in fields and waste places	Eastern Texas	Locally naturalized in various places in temperate North America, native to Europe	Common	May be toxic to wildlife	Toxic to livestock	None
Silene Antirrhina L. Sleepy catchfly HABITAT: moist grassy areas, fields, open woodlands, and waste places	fhroughcut most of Texas	Throughout United States	Common	Moderate food value for songbirds	Меед	None
Silene gallica L. Forked catchfly HABITAT: roadsides and waste places	Eastern third of Texas	Most of eastern United States	Соптоп	Moderate food value for songbirds	Weedy pest	None
Silene stellata (L.) Ait.f. Starry campion HABITAT: in woods or clearings	Eastern third of Texas	Most of eastern United States	NA NA	Moderate food value for songbirds	Aesthetic	None
Silene subciliata Robins. Catchfly HABITAT: sandy soil in open woodlands and scrub areas	Southeastern Texas	Texas and western Louisiana	A	Moderate food value for songbirds	AN	None
Agrostemma Githago L. Common corn-cockle HABITAT: fields and waste places	East-central Texas	Adventive, from Europe	Соптоп	NA	Weed	None
**Cerastium glomeratum Thuill. Chickweed HABITAT: fields, cleared woodlands, along roadsides, and in disturbed waste places	Eastern third of Texas	A native of Europe that has become naturalized from Florida to Texas and California, north to New England, New York, Ohio, Illinois, South Dakota and British Columbia	Сонтоп	Seeds serve as food for birds	Weed	Slightly beneficial
**Cerastium vulgatum L. Common mouse-ear HABITAT: fields, roadsides	Statewide	Widespread naturalized Uncommon in United States, native to Eurasia	Uncommon	Seeds serve as food for birds	Slight aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Stellaria media (L.) Cyr. Common Chickweed HABITAT: waste places, damp woods and thickets	Eastern third of Texas	Widespread naturalized in United States, native to Eurasia	Соттоп	High use for food by songbirds and gamebirds	Lawn and garden pest	Slightly adverse
Arenaria serpyllifolia L. Thyme-leaved sandwort HABITAT: fields, roadsides and open flats in sandy or rocky soils	Eastern and central Texas	Eastern half of United States	Common	Seeds used for songbirds and gamebirds	Aesthetic	None
**Arenaria patula Michx. Sandwort HABITAT: sandy, gravelly soil of meadows and fields	Eastern Texas	Central United States	Соштол	Seeds used by songbirds and gamebirds	Soil stabilizer, aesthetic	None
Arenaria <u>Drunmondii</u> Shinners <u>Sandwort</u> HABITAT: sandy soils mostly in open grassy woodlands	Eastern, south- central, and southern Texas	Texas and Oklahoma	Cormon	Seeds used by scngbirds and gamebirds	Aesthetic	None
Paronychia fastigiata (Raf.) Fern. Whitlow-wort HABITAT: dry woods or sandy openings	Eastern Texas	Eastern half of United States	Uncommon	Seeds of some value to wildlife	Slight aesthetic	None
Paronychia Drummondii T.86. Whitlow-wort HABITAT: sandy soil in dry oak and pine woods and loose sand of dunes	Southeastern Texas	Endemic to Texas	Common	Seeds of some value to wildlife	Slight aesthetic	None
Spergularia marina (L.) Griseb. Salt-marsh sand-spurrey HABITAT: saline or brackish soils in depressions in dunes and on flats	Eastern Texas along coast to south Texas	Texas, California, and Washington	N A	Seeds of some value to wildlife	Marsh stabilization	None
Spergularia echinosperma Celak. Sand-spurrey HABITAT: salt marshes and flats and dune pockets	Eastern Texas along the coast to Corpus Christi, and isolated near Fort Stockton	Introduced into southern United States, native of Old World	NA	Seeds of some value to wildlife	Marsh and dune stabilization	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
NYMPHAEACEAE (water-lijy family)						
Nymphaea mexicana Zucc. Yellow water-111y HABITAT: lakes and ponds	Eastern and southern Texas	Texas, southern Florida, and Mexico	Соптоп	Resting and breeding place for aquatic organisms	High aesthetic	None
Nymphaea odorata Ait. White water-lily HABITAT: ponds, lakes, slow streams	Southeastern Texas	From Florida to Texas, north to eastern Canada	Соптоп	Seeds are high value waterfowl food, foliage eaten by beaver and muskrat	Aesthetic, ornamental	None
Nupha: luteum (Small) E. O. Beal Yellow cow-lily HABITAT: in water or on mud in ponds, shallow lakes, streams, and springs	Eastern Texas, mostly on Edwards Plateau	Throughout United States	Сопяноп	Seeds are high value waterfowl food, foliage eaten by beaver and muskrat	Aesthetic	None
Cabomba caroliniana Gray Farwork HABITAT: lakes, ponds, and quiet streams	Eastern Texas	Florida to Texas, north to Virginia, southern Illinois, and eastern Missourī	Coamon	Cover for fish and invertebrates	Aesthetic	None
Brasenia ichreberi J.F. Gmel. Water-shield HABITAT: slow streams, lakes, ponds	Eastern Texas	From Florida to Texas	Corrnon	Materfowl food	Aesthetic	None
Nelumbo <u>lutea</u> (Willd.) Pers. <u>Yellow lotus</u> HABITAT: quiet ponds and sluggish streams	Eastern third of Texas	From Florida to Texas, north to southern New England, New York, southern Ontario, Minnesota, and Iowa	Сопипоп	Waterfowl food	Aesthetic, edible seed and farina-ceous storage tubers, ornamental	None
CERATOPHYLLACEAE (hornwort family)						
Ceratophyllum demersum L. Common normwort HABITAT: quiet lakes, ponds, slow streams	Statewide, mostly in eastern Texas	From Quebec to northern British Columbia, south to Mexico	Common	Waterfowl food, fish cover	Aesthetic	None
Ceratophyllum echinatum Gray Hornwort HABITAT: quiet waters of lakes, ponds, and streams	Eastern Texas	Florida to Texas, north to southwestern New Brunswick, southern Maine, New York, Ohio, Michigan, Illinois, and	Uncommon	Waterfowl food, fish cover	Part of limnetic ecosystem	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Yalues	Project Impact
RANUNCULACEAE (crowfoot family) Xanthorhiza simplicissima Marso. Brook-feather HABITAT: damp woods, thickets, and on wooded streambanks	Southeastern Texas	From New York south to Florida and Texas	Rare	NA	Aesthetic	None
**Thalictrum dasycarpum Fisch. and All. Purple meadow-rue HABITAI: meadows, swamps, and damp thickets on rich wooded slopes or along wooded streams	Eastern Texas	Northeastern United States and central United States	Соптол	NA	Aesthetic	Moderately adverse
Thalictrum texanum (Gray) Small Houston meadow-rue	Southeastern Texas	Endemic to Texas	Uncommon	Fruit eaten by wildlife	Aesthetic	None
**Delphinium Ajacis L. Rocket larkspur HABITAT: roadsides, waste places, old fields	Central and southern Texas	Introduced in scattered areas in United States, native of Europe	Common	БА	Cultivated, high aesthetic	None
**Delphinium carolinianum Walt. Blue larkspur HABITAT: dry open woods, sandhills, brushlands, fields and barrens	Edwards Plateau to northeastern Texas	From Texas, east to Georgia and Tennessee, north to Illinois	Сопшол	Seeds eaten by birds	High aesthetic	None
Delphinium vimineum D. Don Larkspur HABITAT: sandy open soils, meadowlands, open grassy woods	Edwards Plateau eas:ward	Texas, Louisiana, and southwestern Arkansas	Conmon	May be poisonous to wildlife	Porsonous to live- stock, may be cultivated	None
Ranunculus laxicaulis (T. & G.) Darby Crowfoot, buttercup HABITAT: boggy shores of lakes, in depressions, ditches and marshes	Southeastern Texas	Southeastern United States	Соптоп	Low food value	Aesthetic	None

Project Impact	Slightly	beneficial	None	None	Slightly	beneficial	Moderately beneficial	Slightly adverse	Slightly beneficial
Other Values	Low food	value, aesthetic	Aesthetic	Aesthetic	Aesthetic	2000	/ Aesthetic	Aesthetic,	High aesthetic
Use for	spees to ear among	Some use on secus for food by birds	Low food value	Low food value	Low food value	Low food value	Seeds occasionally eaten by birds and small rodents, low food value	Some use of seeds for foud by birds, low food value	Low food.value
Abundance	по кедтоп	Uncommon	NA	Uncommon	Uncommon	Common	Uncommon	Uncommon 1,	Соптоп
	United States Range	From California to Missouri, and New York south to Texas and Florida	Naturalized in various parts of United States, native of Old World	Recently introduced U into Louisiana and southeastern Texas, native of South America	Naturalized mostly about seaports in North America, native of Old World	Naturalized in various parts of North America, native of Old World	From Washington to New England, south to Texas, Louisiana,	and Georgia Transcontinental from Nova Scotia to Alaska, south to Washington, Colorado, Texas, and	Florida Eastern half of United States
	State Range	Eastern fourth of Texas	Eastern fourth of Texas	Southeastern Texas	Eastern Texas	Eastern fourth of Texas	Southeastern and southerr Texas	Eastern Texas	Eastern Texas
	on in a contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra	**Ranunculus pusillus Poir. Buttercup HABITAT: shallow water and	Ranunculus parviflorus L. Crowfoot, buttercup HABITAL: moist hardwood	Ranunculus platensis Spreng. Crowfoot, buttercup HABITAT: sandy bottomland	woods and thickets Ranunculus Sardous Crantz Crowfoot, buttercup HABITAT: moist grassy slopes	Ranunculus muricatus L. Crowfoot, buttercup HABITAT: grassy banks, along roads, in sandy marshes, and in wet soil about ponds	**Ranunculus sceleratus L. Blister buttercup	**Ranunculus abortivus L. **Ranunculus abortivus L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVUS L. **RANUNCULUS ABORTIVU	**Ranunculus fascicularis Muhl. **Ranunculus fascicularis Muhl. Prairie buttercup HABITAT: sandy soil in shallow water, low pine- lands, meadow, seepage slopes

	Opano Opano	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Adonis annua L. Pheasant's eye HABITAT: cultivate d	Eastern third of Texas		Uncommon	NA	Cultivated, aesthetic	None
**Anemone caroliniana Walt. Anemone, prairiesmoke HABITAT: mostly sandy	Eastern fourth of Texas	From Florida to Texas, Common north to North Carolina, Indiana, Wisconsin, Minnesota, and South Dakota	Common	на	High aesthetic	None
Anemone heterophylla Nutt. Anemone HABITAT: calcareous clays or in sandy clays	Throughout most of Texas	From Alaska to Texas, Oklahoma, and Arkansas	Соптол	NA	High aesthetic	None
Clematis dioscoreifolia Levl. and Van. Clematis + HABIRAT: Climbing on	Southeastern Texas	Frequently cultivated and occurring as an escape, native of Japan	Uncommon	AA A	Cultivated, aesthetic	9 0 0
Clematis virginiana L. Virgin's-bower HABITAT: low grounds, thickets and borders of woods, edge of swamp forests; commonly	Eastern Texas	Eastern half of United States	Common	MA	Aesthetic	None
Clematis glaucophylla Small Clematis HABITAL: in rich woods	Eastern Texas	Southeastern United States	NA NA	W W	Aesthetic	None
Clematis versicolor Britt. Clematis HABITAT: in barrens and	Eastern Texas	Southeastern United States	Common	Bird cover	Aesthetic	None
**Clenatis crispa L. Blue jasmine HABITAT: frequent in wet soils, climbing on shrubs, along streams in low	Eastern Texas, west to Calhoun and Williamson Counties	From Florida to Texas, Common north to southeast Virginia, Illinois, and Missouri	Соптоп	Bird cover	Aesthetic	Slightly beneficial

			Abundance	Use for		
20,1000	State Range	United States Range	in Region	Wildlife Habitat	Other Values	Project Impact
Clematis reticulata Walt. Clematis HABITAT: sandy forest	Eastern Texas	Southeastern United States	Uncommon	Bird cover	Aesthetic	None
**Clematis Pitcheri T. and G. Leather-flower HABITAT: thickets, open woodlands, along streams, low places	North-central, coastal, Edwards Plateau	Central United States	Uncommon	Bird cover	Aesthetic	Slightly beneficial
BERBERIDACEAE (barberry family) **Podophyllum peltatum L. May-apple HABITAT: rich woods, thickets, open pastures, edge of forests	Eastern Texas	Eastern United States	Соптоп	Fruit eaten by wildlife	Fruit edible	Slightly beneficial
**Cocculus carolinus (L.) DC. Red-berried moonseed RABITAT: frequent in rich	Eastern half of Texas	Southeastern United States	Common	Food for squirrels	Ornamental	Slightly adverse
Calycocarpur Lyonii (Pursh) Gray Cupseed HABITAT: in rich and	Eastern Texas	Southeastern United States	Uncommon	NA	Aesthetic	None
**Magnolia grandiflora L. Southern magnolia HABITAT: in low moist	Eastern and . southeastern Texas	Coastal states from North Carolina to Texas	Common	Seeds food for birds and squirrels; winter cover	Historical value, lumber, aesthetic, ornamental	Slightly adverse
Magnolia virginiana L. White bay HABITAT: in swamps, low woods, along boggy streams and on seepage slopes; low, wet, acid, sandy soil	Eastern Texas	From Massachusetts, south to Florida and Texas	Сомпол	Cover for songbirds and game	Aesthetic, fragrant flowers	None

Chartae	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat (Other Values P	Project Impact
**Asimina triloba (L.) Dun. Pawpaw HABITAT: rich woods, banks	Northeastern Texas	Eastern half United States	Common	Food for wild- lifeincluding deer, squirrel; cover	Fruit edible	Slightly adverse
Asimina parviflora (Michx.) Dun. Dwarf pawpaw HABITAT: in dryish pinelands, thickets, and oak woods	Southeastern Texas	Northern Florida to Texas, north to southeastern Virginia	Conmon	Food for wild- lifeincluding deer, squirrel; cover	Fruit edible	None
LAURACEAE (laurel family) **Sassafras albidum (Mutt.) Nees Sassafras HABITAT: sandy woods, old	Eastern third of Texas	Eastern half United States	Common	Food for wild- liveincluding deer, squirrel; cover	Root bark used for tea and medicine	Slightly adverse
**Persea Borbonia (L.) Spreng. Red bay HABITAT: wood, swamps,	Southeastern Texas	Southeastern United States	Common	Fruit rarely eaten by birds, deer, and squirrel; cover	Ornamental, moderate commercial value	Slightly adverse
**Lindera Benzoin (L.) Bl. Spicebush HABITAT: on rich wooded slopes and in rocky areas	Edwards Plateau	Southeastern Virginia, south to Florida and Texas, west to Ohio, Michigan, Missouri, and Arkansas	On Texas rare and endangered plant list	NA NA	Aesthetic, scientific	Slightly adverse
Cassytha fillformis L. Woe-vine HABITAT: parasitic on various herbaceous and woody plants	Coastal Texas	Florida and Texas	Pare	NA	None	None
PAPAVERACEAE (poppy family) Sanguinaria canadensis L. Bloodroot HABITAT: in rich woods	Eastern Texas	Quebec south to Florida, west to Texas	Uncommon, on Texas rare and endangered plant list	NA	Aesthetic, scientific	None
**Argemone po_yanthemos (Fedde) G. Ownbey Prickly poppy HABITAT: in sandy or gravelly soils on prairies, focthills and mesas; roadsides, fields, pastures, and waste grounds	Northern half of Texas '	Central United States	Common	Seeds eaten by white-winged dove	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Argemone albiflora Hornem. White prickly poppy HABITAT: in sandy or gravelly soils on embankments and in vacant lots, pastures, and waste places	Statewide	florthern Arkansas and southern Missouri to Texas	Corrinon	Low food value	May be cultivated	None
**Corydalis micrantha (Engelm.) **Corydalis micrantha (Engelm.) Gray Scrambled eggs HABITAT: disturbed sandy areas, along bluffs, rocky hills, open woods and on	Northeastern, eastern, and southern Texas	From Minnesota to Illinois, Kansas, and Texas	Conmon	Seeds eaten by birds	Aesthetic	Slightly beneficial
**Corydalis aurea Willd. Scrambled eggs RiABITAT: gravelly or sandy soil on hillsides, prairies, plains, gravel pits, creek bottoms, burned-over areas	Vestern half of Texas	Texas	Соглюп	Seeds eaten by birds	May be cultivated	Slightly beneficial
CRUCIFERAE (mustard family) lodanthus pinnatifidus (Michx.) Steud. Purple rocket HABITAT: alluvial soil of river bottoms and in rich woods	Central and eastern Texas	Pennsylvania to lowa, Alabama, and Texas	Uncorraon	Ą:	Aesthetic	None
**Sibara <u>virginica</u> (L.) Roll. Sibara HABITAT: Old fields, roadsides and open areas	South-central and eastern Texas	Southern California and Oklahoma to Ohio, Virginia and Florida	Conmon	NA	VII	None
Descurainia pinnata (Walt.) Britt. Tansy-mustard HABITAT: sandy soils and waste places	Statewide	Entire United States	Соптоп	Seeds used by wildlife, birds	Aesthetic, seeds edible	None
Arabidopsis Thaliana (L.) Heynh. Mouse-ear cress HABITAT: open fields, yards, and roadsides	Eastern Texas	Naturalized from Eurasia, widely dispersed in United States	Consnon	Seeds used by birds	Weed	None

	Daniel Daniel	Inttod Ctatos Rando	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Species	State Kailye Factorn Toxas		Uncommon	NA	Aesthetic	None
Cardamine buibosa (senreb.) 8.5.P. Spring-cress	רבס הינט	United States				
HABITAT: wet woods, creek bottoms, marshy meadows					2	eacN
Cardamine parviflora L. Bitter-cress HABITAT: moist seeps, wet sandy soils and open wet places in wooded areas,	Central and eastern Texas	Florida to eastern Canada, west to Oregon and Washington	Uncommon	None	<u> </u>	
ditches and stream banks **Rorippa sessilifiora (Nutt.) Yellow cress HABITAT: wet land, river floodplains and along sluggish	Northern and eastern Texas	Eastern United States	Cormon	Part of limnetic ecosystem	Aesthetic	Moderately beneficial
stream margins or around ponds **Rorippa islandica (Oeder) Borbás Bog marsh-cress HABITAT: along stream banks and margins of lakes or	Northeastern Texas, southeast to Brazoria County	Texas and Louisiana to Greenland and Europe	NA A	Part of limnetic ecosystem	Aesthetic	Moderately beneficial
Rorippa teres (Michx.) Stuckey Yellow-cress HABITAT: Wet fields, lakes, ponds and stream margins and	Eastern and southwestern Texas	Southeastern coastal plain	Uncernon	Part of limnetic ecosystem	Aesthetic	None
swamp ferc Cakile fusiformis Greene Sea rocket HABITAT: sandy areas near the	HA	Florida to Texas	(!ncommon	ИЛ	Aesthetic, dune stabilizer	None
Cakile gentculata (Robins.) Millsp. Sea rocket HABITAT: beaches and sandy places near occarn, mainland	HA	Northwestern Florida to Texas	Uncommon	NA	Aesthetic dune stabilizer	None
Draba reptans (Lam.) Fern WhitiOw-grass	Northwestern and north-central Texas	Northeastern United States west to Colorado	Uncontion	NA	Slight aesthetic	None
Draba <u>cumeffolla</u> T. & G. Whitlow-grass HABITAT: sandy and gravelly soils	Statewide except northern panhandle and southern Rio Grande plains	Southern and central United States	Conmon	ИА	Slight aesthetic	None

State Range United States Range Statewide Entire United States,
Eastern and southern Central and eastern United States, introduced
Eastern, central, Central and eastern and northwestern United States, Texas Cocasionally in Rocky Mountains and Pacific states
Statewide Most of United States
Southern and Endemic to Texas central Texas
Statewide Western and south- central United States
Western Gulf From south Texas to coastal plain, the Red River, eastern half of Oklahoma, rarely in Louisiana; essentially endemic to Texas

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Cleomella angustifolia Torr. Spider flower HABITAT: deep sands, gravels in river-bottoms, edge of ponds, roadsides, sandy prairies and bare sandstone shale	Eastern half of Texas	South-central United States	11 A	Seeds eaten by birds	Aesthetic, garden flower	None
SARRACENIACEAE (pitcher-plant family) Sarracenia alata Wood Yellow trumpets HABITAT: wet acid bogs on slopes and flats in	y) Eastern and southeastern Texas	Gulf coastal plain from southern Alabama to eastern Texas	Uncommon	Insectivorous	High aesthetic	None
pinelands DROSERACEAE (sundew family)						
Drosera annua E.L. Reed Sundew HARITAT: damp sand in pinelands or mixed forests and in open boys	Eastern and southeastern Texas	Tenressee south to Alabama, Oklahoma, Louisiana, and Texas	Uncommon	Insectivorous	High aesthetic	None
Drosera capillaris Poir. Sundew HABITAT: wet sands and on seepage slopes, bogs	Eastern Texas	Virginia, Tennessee, and Arkansas, south to Florida and Texas	Uncommon	Insectivorous	High aesthetic	None
Drosera intermedia Hayne Sundew HABITAT: wet sands and peaty areas	Southeastern Texas	Eastern half United States	Uncommor	Insectivo ous	High aesthetic	None
CRASSULACEAE (orpine family)						
Tillaea aquatica L. Water pigmy-weed HABITAT: dry mud flats about pools and along shores	Eastern and southeastern Texas	Much of United States except southwest	Сомпоп	18A	Aesthetic	None
Sedum pulchellum Michx. Stonecrop HABITAT: in seepage on and about calcareous rocks	Eastern Texas	Southeastern United States	Uncormon	Low food value	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
SAXIFRAGACEAE (saxifrage family) Lepuropetalon spathulatum (Muhl.) Ell.	Eastern half of Texas	South Carolina and Georgia to Texas	Uncommon	NA	Slight aesthetic	None
Lepuropetalon HABITAT: sandy soil about sinks and on wet soil						
**Penthorum sedoides L. Ditch-stonecrop HABITAT: wet ground, usually along and on edge of water in streams	Eastern and southeastern Texas	Florida to Texas, north to Canada	Uncommon	Eaten by rodents	None	Slightly adverse
Saxifraga texana Buckl. Saxifrage HABITAT: in seepage on rock outcrops in fields and on edge of woods	Eastern Texas	Missouri, Kansas, Arkansas, Oklahoma, and Texas	Unconmon	Low food value	Low aesthetic	None
Parnassia asarifolia Vent. Grass-of-Parnassus PABITAT: in spagnum moss of evergreen shrub bogs	Eastern Texas	From Virginia and West Virginia, south to Georgia and Texas	Cn Texas rare and endangered plant list	Ľ.A	Aesthetic, scientific	None
Farnassia grandifolia DC. Grass-of-Parnassus HABITAT: moist meadows and wet marly situations	Eastern Texas	From Florida to Texas, north to Virginia, West Virginia, Tennessee, and Missouri	Rare	Cover	Aesthetic	None
**Itea virginica L. Tassel-white HABITAT: swamps, about lakes and along wooded streams	Eastern Texas	Southeastern United States	Uncommon	NA A	Aesthetic	Slightly beneficial
Ribes curvatum Small Granite gooseberry HABITAT: rocky woods and slopes	Eastern Texas	From Georgia to Louisiana and Texas	HA H	Moderate food value	Slight aesthetic	None
Decumaria <u>barbara</u> L. Wood-vamp HABITAT: rich woods and swamps	Eastern Texas (questionable)	Southeastern coastal plain	Rare	Bird cover	High aesthetic	None
HAMAMELIDACEAE (witch-hazel family)						
Hamamelis virginiana L. Witch-hazel HABITAT: dry or moist woods	Eastern and central Texas, Edwards Plateau	South Quebec to Minnesota, south to Georgia, Texas, and Lissouri	Соптол	Food for	Analgesic from bark, astringent	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values F	Project Impact
Hamamelis vernalis Sarg. Hitch-hazel HABITAT: along streams in open woods	Eastern Texas	South Missouri and Oklahoma to Texas, Louisiana, and Alabama	Common	Food for squirrels, cover	Aesthetic, astringent	None
**Liquidambar Styraciflua L. Sweet-gum HABITAT: wet situations and swampy woods	Eastern and south-central Texas	From Florida to Texas; north to southern Connecticut; southeastern New York; West Virginia; southern Ohio, Indiana, and Illinois; southeastern Missouri	Сонтоп	Fruit eaten by birds, squirrels, and chipmunks	Aesthetic; lumber, sugar, and gum; ornamental	Slightly adverse
PLATANACEAE (plane-tree family) **platanus occidentalis L. Sycamore HABITAT: mostly along streems and in bottomlands	Eastern two-thirds of Fexas	Eastern half United States	Солипо п	Seeds eaten by muskrat and birds, food for squirrels, cover, dens, nests	Lumber, woody pioneer	Moderately adverse
**Pyrus arbutifolia (L.) L.f. Red Chokeberry HABITAT: low woods, thickets, swamps, wet pine barrens, bogs	Eastern Texas	Much of eastern half Unitec States	On Texas rare and endangered plant list	Fruit eaten by birds	Aesthetic, scientific	Moderately adverse
Pyrus communis L. Common pear HABITAT: escaped from cultivation, thickets, edge of woods and clearings	Eastern Texas	Native of Eurasia, introduced in various localities in United States	Uncommon	Not common enough to be valuable as food	Fruit edible, cultivated	None
Pyrus angustifolia Ait. Wild crab apple HABITAT: woods, bottoms, thickets	Southeastern Texas	Southeastern United States	Common	Moderate food value	Fruit edible	None
**Crataegus Marshallii Eggl. Parsley hawthorn !!ABITAT: sandy woods, hillsides, fencerows and	Eastern Texas	From Virginia to Florida, west along coastal plain to Texas, north in the Mississippi valley to southeastern Missouri	Common	Fruit food for wildlife including deer, squirrels, turkey; good cover	Fruit used for jelly	Moderately auverse
**Crataegus spathulata Michx. Pasture ham HABITAT: sandy or sandy clay woods, fencerows and pastures	Eastern Texas	Southeastern United States	Conmon	Fruit food for widlife-including deer, squirrels, turkey; good cover	Fruit used for jelly	Moderately adverse

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Crataegus brachyacantha Sarg. & Engelm. Blueberry hawthorn HABITAT: borders of streams in rich soil	Eastern Texas	Arkansas, Louisiana, Texas	Соптол	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	None
Crataegus opaca H. & A. Apple haw HABITAT: seasonally filled depressions, along streams and swamps	Eastern Texas	From Alabama to Texas	Common	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental, fruit edible	None
Crataegus uniflora Moench Hawthorn HABITAT: flat woods and open sandy soils	Eastern Texas	Southeastern United States	Соптол	Fruit food for wildlifeincluding deer, squirrels, turkey; good cover	Ornamental	None
Crataegus Calpodendron (Ehrh.) Hedic. Hawthorn HABITAT: dryish cpen woods	Eastern Texas	From Texas and Arkansas, northward and eastward	Common	Fruit food for wildlifeincluding deer, squirrels, turkey; good cover	Ornamente l	None
Crataegus <u>Pearsonii</u> Ashe Hawthorn HA5ITAI: mixed pine-hardwood forests	Southeastern Texas	From Hississippi to Texas	VI.	Fruit food for wildlifeincluding deer, squirrels, turkey; good cover	Ornamental	None
**Crataegus mollis Scheele Downy hawthorn HABITAT: stream bottoms, hillside woods and thickets	North-central and south-central Texas	Eastern half United States	Соптол	Fruit food for wildlifeincluding deer, squirrels, turkey; good cover	Ornamental	Moderately adverse
Crataegus <u>limaria</u> Sarg. Hawthorn HABITAT: dense woods of rich bottomlands	North-central and south-central Texas	Texas and Arkansas	Соптол	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	None
Crataegus texana Buckl. Hawthorn HABITAT: rich bottomlands	Coastal Texas	Endemic to Texas	Соптоп	Fruit food for wildlifeincluding deer, squirrels, turkey; good cover	Ornamental	None
Crataegus <u>invisa</u> Sarg. Hawthorn HABITAT: dense woods of rich bottomiancs	Eastern Texas	Texas, Arkansas, and Oklahora	Соптоп	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	None

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Species	25 - 20 - 24 - 43		Abundance	Use for		
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	tastern lexas, blackland prairies	Endemic to Texas	Согтоп	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	Moderately adverse
Crataegus sabineana Ashe Hawthorn HABITAT: NA	Eastern Texas	Eastern Texas and western Louisiana	Соптол	Fruit food for wildlife including deer, squirrels, turkey;	Ornamental	None
Crataegus pyracanthoides Beadle Hawthorn HABITAT: low rich woods and moist ground al ong strea ms	Eastern Texas	Indiana to Missouri, south to Florida and Texas	Соптоп	Fruit food for wildlife- including deer, squirrels, turkey; good cover	Ornamental	None
**Crataegus crus-galli L. Cockspur hawthorn HABITAT: on limestone bluffs and hilltops, woods, thickets, fencerows	Eastern and north- central Texas	From southeastern Canada to South Carolina, west to Minnesota, Kansas, Texas	Солжпол	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	Slightly adverse
Crataegus <u>Reverchonii</u> Hawthorn HABITAT: thickets and open woods	North-central Texas	Texas, north to Arkansas, Missouri, and Kansas	Соптоп	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	None
Crataegus cherokeensis Sarg. Hawthorn HABITAT: upland thickets and lowland woods	Eastern Texas	Endemic to Texas	Cormon	Fruit food for wildlifeincluding deer, squirrels, turkey; acod cover	Ornamental	None
Crataegus sublobulata Sarg. Hawthorn HABITAT: edge of upland woods	Eastern Texas	Endemic to Texas	Соптоп	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	None
Crataegus Warneri Sarg. Hawthorn HABITAT: sandy woods and dry banks	Eastern Texas	Endemic to Texas	Соптоп	Fruit food for wildlifeincluding deer, squirrels, turkey; good cover	Ornamental	None
Crataegus berberifolia T.& G. Bigtree hawthorn HABITAT: low wet woods and on dryish hills	Eastern Texas	Enderic to Texas	Common	Fruit food for wildlife including deer, Squirrels, turkey; good cover	Ornamental	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Empact
Crataegus Engelmannii Sarg. Hawthorn HABITAT: sandy upland or lowland woods, thickets and open dry soils	Eastern and north- central Texas	From Illinois to Oklahoma and Texas	Соптоп	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	None
**Crataegus glabriuscula Sarg. Hawthorn HABITAT: dry creek beds and bottomlands along rivers	North-central and south Texas	Endemic to Texas	Соптоп	Fruit food for wildlife including deer, squirrels, turkey;	Ornamental	Slightly adverse
**Crataegus viridis L. Green hawthorn HABITAT: low wet or alluvial woods, fields in sandy soils and clays	Eastern and south- central Texas	From Virginia and Florida, west to Illinois, Missouri, and Texas	Соптоп	Fruit food for wildlife including deer, squirrels, turkey; good cover	Ornamental	Slightly adverse
Fragaria virginiana Duchn. Virginia strawberry HABITAT: fields, prairies, open slopes and borders of woods	Eastern fourth of Texas	Much of eastern United States	שוו	Voderate food value	Aestnetic, fruit edible	None
**Duchesnea indica (Andrz.) Focke Indian strawberry HABITAT: edge of low wouds and thickets, seepage areas and marshes, along roadsides, old fields	Eastern Texas	Widely introduced in United States, native to Asia	Сопиол	Songbirds and gamebirds eat leaves and fruit, leaves eaten by small mammals and deer	Aesthetic	None
Potentilla recta L. Sulphur cinquefoil !ABITAT: fields and along roadsides	Tarrant and Cass Counties	Naturalized in fields and along roadsides throughout much of northeastern United States, Texas, native of Europe	Согипол	ИА	Aesthetic	None
**Geum canadense Jacq. White avens HABITAT: rich woods	Eastern third of Texas	Nova Scotia to South Dakota, south to Georgia and Texas	liA	Low food value	Aesthetic	None
Rubus bifrons Vest Dewberry HABITAT: sandy roadsides, waste places, and about old homesites, naturalized	Eastern Texas	From Florida to Texas, north to Rhode Island, Tennessee, and Missouri, native of Europe	Common	Fruit eaten by wildlife, high value seasonal food, cover	Fruit edible	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values F	Project Impact
Rubus flagellaris Willd. Northern dewberry HABITAT: dry fields, opening and borders of thickets	Eastern third of Texas	Most of eastern half United States	Сонтоп	Fruit eaten by wildlife, high value seasonal food, cover	Fruit edible	None
Rubus Nessianus Bailey Dewberry HABITAT: red sands in pinelands and bottomlands	South-central and southeastern Texas	Endemic to Texas	ห	Fruit eaten by wildlife, high value seasonal food, cover	NA NA	None
Alchemilla microcarpa Boiss a Reut. Parsley piert HABITAT: sandy open places, old fields and along roads	Eastern Texas	Naturalized from Delaware south to Georgia, Alabama, and Texas	Uncommon	NA	Aesthetic, foliage edible	None
Agrimonia <u>microcarpa</u> Wall r. Agrimony WABITAT: low rich woods	Eastern Texas	Southeastern United States	Uncormon	иА	Aesthetic, pest	None
**Agrimonia rostellata Wallr. Woodland groovebur WABSIAT: moist rich open woods	Hortheastern Texas	Georgia to Texas and Oklahoma, north to Hassachusetts, Connecticut, New York, Ohic, Indiana, Illinois, Missouri, and eastern Kansas	И псопиол	IIA	Pest	Slightly adverse
**Agrimonia parviflora Ait. Manyflower groovebur HABITAT: damp thickets and meadows and in marshy areas	Northeastern Texas	From Florida to Texas, north to Connecticut, Hew York, Ontario, Ohio, Indiana, Illinois, and Mebraska	Uncormon	НА	Pest	Slightly adverse
Sanguisorba annua Nutt. Prairie burnet HABITAT: sandy or gravelly soils in prairies, pastures, open oak woods and along roadsides	Horth-central Texas	Texas to Arkansas and Kansas	Соптол	NA	Aesthetic, foliage edible	None
Rosa bracteata Wendl. Macartney rose HABITAT: escape from cultivation	Eastern Texas	Florida to Texas, north to Virginia, native of China	Common	Fruit eaten by wildlife	Aesthetic, edible, cultivated	None
**Rosa setigera Michx. Prairie rose HABITAT: open woods, thickets, clearings and banks	Eastern Texas	Fiorida to Texas, north to New York, West Virginia, Ohio, Indiana, Illinois, Pissouri, and Kansas	Comion	Fruit eaten by wildlife	Aesthetic, edible, cultivated	Slightly bereficial

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Charlee	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Rosa foliolosa Mutt. Leafy rose HABITAT: prairies, sandy oak woods, thickets, and along fences, roadsides and railroad tracks	North-central and central Texas, southwest to Kerr County	Texas, Oklahoma, and Arkansas	NA N	High food value	Aesthetic	None
Rosa carolina L. Carolina rose HABITAT: dry sandy, rocky or open habitats or thin woods	Eastern Texas	Eastern half United States	нА	High food value	Aesthetic	None
Rosa suffulta Greene Sunshine rose HABITAT: dry thickets, on rocky slopes and sands	North-central Texas	Central United States	VII	High food value	Aesthetic	None
Prunus caroliniana (Mill.) Ait. Laurel cherry HABITAT: in and on the edge of forests, lowland areas, fields and thickets	Eastern Texas	Florida to Texas, north to North Carolina	Coirmon	Food for wildlife including deer, squirrel, turkey; cover	Ornamental	None
Prunus virginiana L. Common chokecherry MABIAT: open woods, rucky slopes, bluffs, rimrock, break, and seepage areas	Eastern Texas, the Panhandle and Trans- Pecos	From Rewfoundland to Saskatchewan, south to Borth Carolina, Tennessee, Kissouri, Kansas, and Texas	Cormon	Food for vildlifeincluding deer, squirrel, turkey; cover	Fruit edible in jolly	None
**Prunus serotina Ehrh. Black cherry HABIAT: woodlands, floodplains, canyons, draws, thickets, fencerows	Eastern Texas, scattered	Eastern and southern United States	Cormon	Fruit eaten by birds, raccoon, opossum, squirrel, rabbit, deer, turkey; cover	Fruit edible, ornamental, timber, foliage, poisonous to cattle	Slightly adverse
**Prunus persica (L.) Batsch Peach HABITAT: cultivated, escapes in waste places, dumps, thickets, along roadsides and eage of woods	Mostly in eastern Texas	Introduced widely in United States, native of China	Uncommon	Food for wildlife	Fruit edible, cultivated	None
Prunus umbellata Ell. Flatwood plum HABIAT: in and on edge of forests, on slopes and along creeks, in pastures and fencerows	Mostly in eastern Texas	Mississippi to Texas and southern Arkansas	Сопилоп	Food for variety of wildlife including birds, deer, squirrels, turkey; cover	Fruit edible, cultivated	None

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			Abundance	Use for wildlife Habitat	Other Values	Project Impact
Species	State Range	United States Kange	In Key Lou	High for food for	Aesthetic	Slightly
**Prunus mexicana Wats. Mexican plum Hexican plum Refers, hardwood slopes,	Northeastern and north-central Texas, eastern Edwards Plateau	Texas	Common	night of pariety of wildlifeincluding deer, squirrel, turkey; cover		beneficial
prairies Prunus Munsoniana Wight & Hedr. Wild-goose plum HABITAT: limestone ledges and	Centered on Edwards Plateau but south to Calhoun County and north to Rockwall	Kentucky and Tennessee, south to Kansas and Texas	Common	High for food for variety of wildlife-including deer, squirel, turkey, cover	Aesthetic	None
Prunus gracilis Engelm. & Gray Oklahoma plum HABITAT: sandy or dryish soils on open Hills and	County Eastern Texas, Panhandle	Texas, Oklahoma, and Arkansas	Сопипол	High for food for variety of wildlife-including deer, squirrel, turkey; cover	Aesthetic }	None
and fields Prunus rivularis Scheele Creek plum HABITAT: along creeks, edge of woods, roadsides, canyons,	Nainly on Edwards Plateau, north- central Texas	Texas, Orlahoma	Corrion	High for food for variety of wildlife.—including deer, squirrel, turkey; cover	Aesthetic g	None
breaks on limestone ravines and slopes **Prunus angustifolia Karsh. Chickasaw plum HABITAT: old fields, edge of woods, along roadsides and fencerows	Throughout most of eastern two-thirds of Texas	Paryland and Delaware, south to Florida, west to Al.ansas and Texas	Corror	High for food for variety of wildlife-including deer, squirrel, turkey; cover	Fruit edible, may be g cultivated	Slightly beneficial
LEGUNIMOSAE (legume family) Acacia hirta I. & G. Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern acacida Fern ac	Through eastern two-thirds of Texas, rarely west to plains	Texas, Oklahoma, Arkansas, Missouri, and Florida	Соптоп	Noderate food value and cover	пА	None
Schrankia hystricina (Britt. & Rose) Standl. Sensitive brier	country Eastern, and south- eastern Texas	Texas, Louisiana	Locally abundant	AN A	Aesthetic	None
Schrankia uncinata Willd. Sensitive bri HABITAT: sandy soils	Eastern, south- eastern, and north-central Texas	Central United States, sparingly southeast to South Carolina and Alabama, southwest to Texas	Locally abundant	ИР	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Othor Value	Droiond tour
**Schrankia Roemeriana (Scheele) Blank Sensitive brier HABITAT: colcareous soil	North-central Texas, scattered in Edwards Plateau	Texas, Oklahoma	Соптол	NA	Aesthetic	None
Schrankia <u>microphylla</u> (Sm.) Macbr. HABITAT: NA	Scattered in south- eastern Texas, rare in southern part of East Texas	Coastal states, Virginia to Texas	Uncommon	ИА	Aesthetic	None
**Mimosa strigillosa T.&G. Powderpuff HABITAT: grasslands and openings in forests on sandy loam	Eastern and south- eastern Texas, and coastal parts of Rio Grande plains	Southeastern United States, west to Oklahoma and Texas	Сопшол	на	ИА	Unknown
**Desmanthus illinoensis (Michx.) MacM. Illinois bundleflower HABITAT: clay soils	North-central Texas, infrequent or rare in Edwards PLateau and plains country	Sounth-central United States	Rare	Low food value for quail	ĽΆ	None
<u>Desmanthus leptolobus</u> T. & G. Bundleflower HABITAT: NA	North-central Texas, rare west on Edwards Plateau and plains country	Kansas, Missouri, Arkansas, and Texas	[ccally common to rare	Low food value for quail	NA.	None
**Neptunia lutea (Leavenw.) Benth. Vellow-puff HABITAT: NA	Scattered or locally frequent over the eastern half of Texas, south to Aransas and Goliad Counties, west to north-central Texas	Alabama, Hississippi, Arkansas, Louisiana, Oklahoma, and Texas	Locally common	Low food value for quail	Aesthetic	None
Neptunia pubescens Benth. Yellow-puff HABITAT: NA	Coastal plains, inland to Val Verde County	Gulf coastal plains	Сомпон	Low food value for quail	NA	None
**Prosopis glandulosa Torr. Honey mesquite HABITAT: NA	Throughout most of state, abundant in some areas	Kansas, Oklahoma, eastern New Mexico, and into Mexico	Abundant to common	High food value, cover and nesting sites	May be used a as an ornamental	None .
** <u>Cercis canadensis</u> L. Redbud HABITAT: forested sandy areas, calcareous soils	Eastern and north- central Texas, Edwards Plateau and eastern parts of plains country, mountains of lines- Pecos	Widespread in eastern United States	Conmon	Noderate for cover and nesting sites; food for wildlifeincluding deer and turkey	Aesthetic, may be used as ornamental	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Othon Value	10000
Cassia Roemeriana Scheele Two-Teaved senna HABITAT: fields and open woods on limestone and black clay soils	Central and southwestern Texas	Texas and New Mexico	Соптол	Moderate for food, seeds eaten by birds and small mammals; plants qrazed	Aesthetic	None Impact
Cassia nictitans L. Sensitive pea HABITAT: woods, fields, disturbed places	Northeastern Texas, westward and southward	Eastern half United States	Locally abundant	Moderate for food, seeds eaten by birds and small mammals; plants drazed	Aesthetic	None
**Cassia fasciculata Michx. Partridge pea MABITAT: fields and open woods, mainly on sandy soils	Eastern and central Texas	Enstern half United States	Common	High for food; seeds eaten by gamebirds, small mammals; plants	Aesthetic. soil improver, sometimes toxic to livestock	None
**Cassia <u>obtusifolia</u> L. SIckle-pod HABITAT: uisturbeu ground on sandy soils	fastern Texas	East and north to Pennsylvaria, Indiana, and Missouri	Common	Possibly negative, seeds reported to be sometimes fatal to quail	Aesthetic, alternate host fcr tobacco etch disease	None
Cassia <u>occidentalis</u> L. Coffee senna PABITAI: roadsides, waste ground, and other disturbed places	Gulf coastal plain, southern half fest Texas	Southeastern United States	Common	Seeds reported to have antibiotic activity	Aesthetic. weakly toxic to livestock	None
**Cassia marilandica L. Maryland senna HABITAT: moist sandy fields open woods and creek borders	Eastern Texas	Eastern United States	Corranon	Seeds reported to have antibiotic activity	Aesthetic, sometimes cultivated; some value as a nectar plant in apiaries	Slightly beneficial
**Gleditsia triacanthos L. Honey locust HABITAT: HA	Scattered in eastern Texas	Eastern United States	Uncommon	High for food, seeds and pods eaten by many birds and mammals, cover and nesting sites	Seeds edible	Slightly adverse
**Gleditsia aquatica Marsh. Water locust HABITAT: swamps, along rivers and low bottomland forests	Eastern and southeastern Texas	Central United States to Florida	Uncommon	High for food; seeds, pods, and foliage food for many birds and mammals; good	Soil builder, nitrogen fixer	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Value	Project Impact
Irifolium incarnatum L. Crimson clover HABITAT: roadside escapee	Eastern half of Texas	Widely introduced, native of Europe	Соптол	High for food, provides nectar for bees	hay	None
**Trifolium resupinatum L. Persian clover HABITAT: roadside escapee	Eastern Texas	Widely introduced, native of Old World	Rare	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beenectar	Aesthetic, forage and hay crop, adds nitrogen to soil	None
Trifollum reflexum L. Buffalo clover HABITAT: sandy forested areas	Northeastern Texas	Most of eastern United States	Uncommon	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beconectar	Aesthetic, adds nitrogen to soil	None
**Trifolium repens L. White clover HABITAT: roadside escapee	Scattered in eastern half of Texas	Widely introduced native of Europe	Common	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beenectar	Aesthetic, adds nitrogen to soil, forage and hay crop	None
**Trifolium amphianthum T. & G. Peanut clover 4ABITAT: wooded sandy areas	Eastern, south- eastern, and north- central Texas	Texas, Louisfana	Conmon	Moderate for food, eaten by birds, small mammals, and deer; provide bee nectar	Aesthetic, adds nitrogen to soil	None
Trifollum bejariense Moric. Clover HABITAT: sandy or sandy clay soils of prairies and open woods	Eastern and north- central Texas	Endemic to Texas	Unconvion	Moderate for food, seeds eaten by variety of birds and small manmals, plants eaten by deer, provide been nectar	Aesthetic, adds nitrogen to soil	None
**Trifolium carolinianum Michx. Carolina clover MABITAT: NA	Eastern and south- eastern Texas, southwest to Travis, Caldwell, and Wharton Counties	Southeastern United States, northwest to Kansas and Oklahoma, north to Missouri and Virginia	Convnon	Low for food, minor use as food by wildlife, primcipally hoofed browsers eat plants	Aesthetic, adds nitrogen to soil	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Value	Project Impact
**Medicago minima (L.) L. Small bur-clover HABITAT: cultivated	North-central Texas, eastern edge of Edwards Plateau, rare farther east	Widely introduced in Texas, native of Eurasia	Common	High for food, seeds eaten by gamebirds and songbirds, fruits eaten by small rodents	Aesthetic	None
**Medicago orbicularis (L.) Bartal. Button clove: HABITAT: NA	Scattered in north- central Texas, eastern part of plains country	Widely introduced, native of Mediterranean area	Uncommon	Moderate for food, seeds used as food by birds, and plants by orowsers	Aesthetic S	None
**Kedicago polymorpha L. var. vulgaris (Benth.) Shinners Bur-clover HABITAT: lawns	Widespread in eastern half of Texas, rare in western half	Widely introduced, native of Cld World	Соптоп	Noderate for songbird and small mammal food	Aestnetic, weed in lawns	None
**Megicago arabica (L.) Huds, Spotted bur-clover HABITAT: cultivated	Scattered in eastern half of Tex.1s	Widely introjuced, native of Cld World	Соляко,	Moderate for food, leaves, pods, and seeds eaten by birds and small manmals	Aesthetic, forace plant for livestock, soil improvement	None
***Felilotus albus Lam. White sweet 'over HABITAT: NA	Scattered as weed over Texas, seemingly rare on Edua ds Plateau and tar eastern Texas	Widely introduced, native of Eurasia	Cormon	Noderate for food, seeds and leaves eaten	Aesthetic, high forage and hzy value, weed	None
**Welilotus indicus (L.) All. Sour clover HABITAT: cultivated	Scattered over Texas	Widely introduced, native of Mediterranean area	Conmon	Noderate for food for upland game, fur and game mannmals, small mammals	Aesthetic high forage and hay value	None
**Melilotus officinalis (L.) Lam. Yellow sweet clover HABITAT: cultivated	Frequent in north-central Texas, scattered elsewhere	Widely introduced, native of Eurasia	Common	Moderate for food by browsers and seed eaters	Aesthetic, high forage and hay value	None
**Trifolium campestre Sturm, Low hop clover HABITAT: sandy soils along roads, wooded areas	Eastern and southeastern Texas	Widely introduced, native of Europe	Соптоп	High for food, seeds important food for birds, foliage eaten by small mammals and deer	Aesthetic, provide bee nectar, supply nitrogen to soil	None
Trifolium <u>pratense</u> L. <u>Red clover</u> HABITAT: cultivated	Scattered escape in eastern half of Texas	Widely introduced, native of Europe	Сочтол	High for food, provides nectar for bees	Aesthetic, forage and hay crop, adds nitrogen to soil, green	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Value	Project Impact
Trifolium incar.atum L. Crimson clover HABITAT: roadside escapee	Eastern half of Texas	Widely introduced, native of Europe	Соптоп	High for food, provides nectar for bees	Aesthetic, forage and hay crop, adds nitrogen to	None
**Trifolium resupinatum L. Persian clover HABITAT: roadside escapee	Eastern Texas	Widely introduced, native of Old World	Rare	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beenectar	Aesthetic, forage and hay crop, adds nitrogen to soil	None
Trifolium reflexum L. Buffalo clover HABITAT: sandy forested areas	Mortheastern Texas	Most of eastern United States	Uncormon	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beenectar	Aesthetic, adds nitrogen to soil	None
**Trifolium repens L. White clover HABITAT: roadside escapee	Scattered in eastern half of Texas	Widely introduced native of Europe	Common	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beenectar	Aesthetic, adds nitrogen to soil, forage and hay crop	None
**Trifolium amphianthum T. & G. Peanut clover HABITAT: wooded sandy areas	Eastern, south- eastern, and north- central Texas	Texas, Louisiana	Соптоп	Moderate for food, eaten by birds, small mammals, and deer; provide bee nectar	Aesthetic, adds nitrogen to soil	None
Trifolium bejariense Moric. Clover HABITAT: sandy or sandy clay soils of prairies and open woods	Eastern and north- central Texas	Endemic to Texas	Uncommon	Moderate for food, seeds eaten by variety of birds and small mammals, plants eaten by deer, provide beenectar	Aesthetic, adds nitrogen to soil	None
**Trifolium carolinianum Michx. Carolina clover HABITAT: NA	Eastern and south- eastern Texas, southwest to Travis, Caldwell, and Wharton Counties	Southeastern United States, northwest to Kansas and Oklahoma, north to Missouri and Virginia	Согинол	Low for food, minor use as food by wildlife, primcipally hoofed browsers eat plants	Aesthetic, adds nitrogen to soil	None

	0000 0 0+0+0	United States Bange	Abundance in Region	Use for Wildlife Habitat	Other Value	Project Impact
**Lotus Purshianus (Benth.) Clem. & Clem. Deer vetch HABITAT: usually on sandy	North-central, eastern, and south- eastern Texas, infrequent in Llano	Most of United States west of Mississippi River	Abundant	High for food, both leaves and seeds are eaten by birds and rodents	Aesthetic	None
**Indigofera miniata Orc. Scarlet pea	Eastern two-thirds of Texas	Texas to Florida	Very abundant	иА	Aesthetic	None
nAbilAl: Open areas Indigofera suffruticosa Mill. Indigo HABITAT: coastal plains	Coastal plains, Hardin County to Cameron County, inland to Brazos, Gonzales, and	Widely introduced, native to Tropical America	Locally common	пA	Aesthetic	None
Psoralea simplex I. & G. Scurfy pea HABITAT: sandy scils	Eastern and south- eastern Texas	Southeastern Urited States	Uncomion	riA Ti	Aesthetic	None
Psoralea psoralioides (Walt.) Cory Sampson's snakeroot	Eastern and south- eastern Texas	Southeastern United Statcs, north to Virginia and Illinois	Common	17.A	Aesthetic	None
Psoralea linearifolia T.8 G. Scurfy pea HABITAT: rocky calcareous	Frequent in north-central Texas, rare in plains country	Hebraska and Wyoring south to Texas	Cormor	₩.	Aesthetic	None
**Psoralea tenuiflora Pursh. Slimleaf scurfy pea HABITAT: NA	Frequent in north- central Texas, local in Trans-Pecos and parts of plains country, scattered in Edwards Plateau and eastern and south- eastern Texas	Central United States from Illinois to Montana and south to Texas and Arizona	Совчто п	IIA	Aesthetic	None
Psoralea digitata T. & G. Scurfy pea HARITAT. sandy soils	North-central Texas	South Dakato to Colorado, Texas, and Arkansas	Соптол	иА	Aesthetic	None
Psoralea Reverchonii Wats. Scurfy pea HABITAT: rocky calcareous soils, rarely on sandy	North-central Texas	Texas, Oklahoma	Rare	None	Aesthetic	None

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Species	State Range	United States Range	Abundance in Reator.	Use for Wildlife Habitat	Other Value	Project Impact
Psoralea <u>cuspidata</u> Pursh. Scurfy pea HABITAT: calcareous soils	North-central Texas, plains country, and Edwards Plateau; infrequently south to DeWitt and Lavaca Counties	Great Plains, South Dakato to Texas	Сентпоп	NA		None
Psoralea latestipulata Shinners Scurfy pea HABITAT: rocky or sandy calcareous soil, bare limestone, hillsides	North-central and central Texas	Endemic to Texas	Locally cormon	ИА	Aesthetic	None
Psoralea <u>subulata</u> Bush <u>Scurfy pea</u> HABITAT: openings in woods on loose sandy soil	Eastern, north- central, and southeastern Texas	Endemic to Texas, but probably occurs in Louisiana	Locally cormon	¥N.	Aesthetic	None
Psoralea <u>hypogaea</u> T. & G. Scurfy pea HABITAT: calcareous hillsides	North-central Texas, eastern edge of Edwards Plateau, higher parts of plains country	Monuana and Wyoming, couth to Texas and New Mexico	Uncormor	NA	Aesthetic, edible root	None
**Psoralea rhombifolia T. 8 G. Roundleaf scurfy pea HABITAT: Sandy soil	Eastern and south- eastern Texas	Texas, Louisiana, Oklahoma	Uncormon	HA	Aesthetic	None
Amorpha canescens Pursh. Lead plant HABITAT: Sandy prairies	Infrequent or rere and local and with a very peculiar disjunct distribution, occurring in sandy prairies, eastern Panhandle, scattered in southeastern and south-central lexas, south to Aransas	South-central Canada, south to New Mexico and Texas	Locally uncommon or rare	∀ ::	Aesthetic	None
**Amorpha Amorpha HABITAT: deep acio woodlands and bogs	Eastern Texas	Arkansas, Louisiana, and Texas	Uncommon	Moderate food value for quail	Aesthetic	None
**Amorph_fruticosa L_Bastard indigo HABITAT: NA	Statewide, rare in eastern and far western Texas	Widely scattered in United States	Abundalit	Moderate for food, seeds eaten by quail	Aesthetic nitrogen fixer, erosion control, pcisonous to livestock	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Dalea Hallii Gray Dalea HABITAT: NA	North-central Texas, north and northeast to Parker, Dallas, Tarrant, and Fannin Counties, south to Hays and Kerr Counties	Endemic to Texas	NA	Low food value	Aesthetic	None
**Petalostemum candidum (Willd.) Michx. Prairie clover HABITAT: NA	Scattered in northern half of Texas	Central United States	Сопятоп	NA	Aesthetic, ornamental	None
Petalostemum glandulosum Coult. and Fish. Prairie clover HABITAT: NA	Scattered on Texas coastal plain from Hardin and Trinity Counties, southwest to Aransas and Dimmit Counties	Endemic to Texas	Uncormon	NA	NA	None
Petalostemum phleoides T.8G. Prairie clover HABITAT: sandy woodlands	Eastern Texas	Texas and Arkansas	Rare	NA	NA	None
Petalostemum microphyllum (T. & G.) Heller Prairie clover HABITAT: NA	Frequent in eastern, southeastern, and north-central Texas	Endemic to Texas	Cormon	NA	Aesthetic	None
Petalostemum griseum I.\$6. Prairie clover HABITAT: sandy woodlands	Eastern and southeastern Texas	Endemic to Texas	ĄN	NA.	пА	None
**Petalostemum pulcherrirum (Reller) Heller Prairie clover HABITAT: calcareous soils	North-central Texas, infrequent southeast to Goliad, Jackson, and Hontgomery Counties, west to Irion County, rare in Trans-Pecos	South-central United States	Common	NA	Aesthetic	· None
Potalostemum decumbens Nutt. Prairie clover HABITAT: black clay soils, prairies or gumbo glades	Southeastern Texas and north to Polk and Tyler Counties	Texas and Okalhoma	Locally common	NA	NA	None
<u>Tephrosia</u> onobrychoides Nutt. Hoary pea HABITAT: sandy soils	Eastern and south- eastern Texas, south- west to Wilson, Goliad, and Aransas Counties	Alabama to Texas and Oklahoma	NA	Low food for quail	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values R	Project Impact
Wisteria macrostachya T. & G. Wisteria HABITAT: moist woods and along river banks	Eastern and south- eastern Texas	East-central United States	Locally common	Moderate for cover		None
**Sesbania ve <u>sicaria</u> (Jacq.) Ell Bladder pod HABITAT: seasonally wet places	Eastern third of Texas, west to Palo Pinto, Erath, Bastrop, Gonzales, Karnes, and San Patricio Counties	Coastal states, North Carolina to Texas	Солипол	None known	Nitrogen fixer	Slightly adverse
**Sesbania <u>macrocarpa</u> Muhl. Bequilla HABITAT: seasonally wet places	Infrequent or locally abundant eastern third of Texas, west to Denton, Tarrant, Travis, Hays, Comal, San Patricio, and Cameron Counties	Florida to Texas, and north to Missouri	Locally abundant	Moderate for food, seeds eaten by quail and other birds	Aesthetic, nitrogen fixer	Slightly adverse
** <u>Sesbania Drummondii</u> (Rydb.) Cory Rattlebush HABITAT: seasonally wet places	Coastal plain, inland to Denton, Williamson, Travis, Comal, Wilson, McMullen, and Starr Counties	Coastal states, Florida to Vermont, and inland to San Luis Potosi	Locally very abundant	The seeds, if eaten, are known to be poisonous to sheep and goat	11A	Slightly adverse
Sesbania <u>punicea (</u> Cav.) Renth. Sesbania HABIIAT: seasonally wet places	Eastern and south- eastern Texas	"!jdely adventive in warmer barts of southeastern United States, native of South America	Uncommon to rare	dN T	DA.	None
**Robinia Pseudo-Acacia L. Black Tocust HABITAT: cultivated, native to parts of southeastern United States	Eastern, south- eastern, and north- central Texas	Probably native to parts of southeastern United States, now widely cultivated in temperate climates	Scattered, common	Low food value, good cover and nesting sites	Seed edible, used for fence posts and mine props, weedy "dirty" tree	Slightly adverse
Astragalus <u>canadensis</u> L. M11k-vetch HABITAT: NA	Scattered in northern part of north- central and parts of eastern and south- eastern Texas	Much of temperate North America	Соптоп	Moderate food value	Aesthetíc	None
Astragalus <u>distortus</u> T. & G. Milk-vetch HABITAT: MA	Two varieties, abundant in north- central, eastern, and southeastern Texas	Southeastern United States	Abundant	Moderate food value	Aesthetic	None
**Astragalus <u>Nuttallianus</u> A. DC. <u>Milk-vetch</u> HABITAT: :A	Western two-thirds of Texas	Southwestern United States	Abundant to common	Moderate for food, seeds eaten by narebird, and srall marmals	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Astragalus <u>leptocarpus</u> T.8G. M11K-vetch HABITAT: NA	Abundant in eastern, southeastern, and north-central Texas, and near the coast scuth to Cameron County	Endemic to Texas	Abundant	Moderate food value	Aesthetic	None
Astragalus <u>reflexus</u> 7.86. Alk-vetch HABITAT: NA	Infrequent Dallas and Travis Counties, rarely southeastern to Gonzales and Walker Counties	Endemic to Texas	Uncommon	Moderate food value	Aesthetic	None
Oxytropis <u>Lambertii</u> Pursh Crazy-weel, purple loco HABITAT: Scattered in higher plains	Morth-central Texas, south to Tarrant and Dallas Counties, very rarely south to Comanche and Travis Counties	From Canada, south and southwest to Arizona, New Mexico and Texas	Corumon	Negative, one of the most dangerous of the loco weeds because it is readily eaten by grazing animals, often with fatal	МА	None
**Stylosanthes biflora (L.) 8.S.P. Pencil-flower HABITAT: NA	Frequent in eastern, southeastern, and north-central Texas	Most of eastern United States	Соптов	Low as food for quail	NA	Unknown
Zornia <u>bracteata</u> J.F. Gmel. Viperina HACITAT: sandy gravelly soils	Rio Grande plains, north-central and southeastern Texas, less frequent west to the Llano area of Edwards Plateau and to eastern Texas	Coastal states Virginia to Texas	Сонтол	NA	Aesthetic	None
Zornia gemella (Willd.) Vog. Zornia HABITAT: sandy soils	Rio Grande plains, rare in southeastern and eastern Texas	From South America north into Texas	Uncommon to rare	ИА	4 ⊱1	None
Zornia <u>reticula a</u> Sm. Zornia HABITAT: sandy soil	Rio Grande plains, and southeastern Texas	Paraguay northwest to Arizona and Texas	Uncommon	NA	Aesthetic	None
Desmodium nudiflorum (L.) DC. Tick-trefoil HABITAT: rich woods	Eastern Texas	Central United States, Rare south to northern Florida, southern Mississippi, and central Louisiana	Rare	High for food for variety of wild- lifeincluding quail	Aesthetic	None
**Desmodium pauciflorum (Nutt.) DC. Fewflower tick-clover HABITAT: rich woods, wooded banks	Eastern Texas	Eastern and central United States southward	Rare	High for food, seeds eaten by ouail and rice, plants eaten by deer	Aesthetic	Słightly adverse

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Desmodium rotundifolium CC	Southoaster T	United States Range	in Region	Wildlife Habitat	Other Values	Project Impact
Tick-trefoil HABITAT: dry woods	southedstern lexas	Florida to Texas, northward to Massachusetts, southern Vermont, New York, and	Uncommon	High for food for variety of wildlifeincluding quail		None
**Desmodium canescens (L.) DC. Hoary tick-clover HABITAT: dry sandy woods	Eastern and north- central Texas	Eastern half of United States	Сопятол	High for food, seeds important food for quail,	Aesthetic	None
**Desmodium sessilifolium (Torr.) T. & G. Beggar-weed HABITAT: dry sandy soils	Frequent in eastern and north-central Texas, infrequent in southeastern Texas, rare in plains	Local in eastern United States	Соптоп	brancs browsed by deer Low for food, occasionally seeds used by Bob-white quail as food	Aesthetic	None
**Cesmodium obtusum (Willd.) DC. Beggar-weed HABITAT: sandy open woodlands	Eastern and north- central Texas	Scattered in eastern United States, south to southeastern South Carolina.	Rare and scattered	Low for food, ocassionally seeds used, y Bob-white	Aesthetic	Slightly adverse
Desmodium ciliere (Willd.) DC. Tick-trefoil HABITAT: dry sandy woods and clearings	Eastern and south- eastern Texas	Florida, and Texas Eastern United States	Rane	quail as rood High for food for variety of wild- lifeincluding	Aesthetic	None
Desmodium marilandicum (L.) DC. Tick-trefoil HABITAT: dry open woods	Scattered and rare in eastern and southeastern Texas	Eastern half of United States	Rare	quail High for food for variety of wild- life-includind	Aesthetic	None
Desmodium cuspidatum (Willd.) Loud. Tick-clover HABITAT: rich woods	Northeastern Texas	Eastern and central United States	Uncommon	quafl NA	IJA	None
**Desmodium viridiflorum (L.) DC. Beggar-weed HABITAT: dry woods	Eastern Texas	Southeastern United States, north to Delaware and inland only to Arkansas and	Uncommon	Low for food, occasionally seeds used by Bob-white quail as food	Aesthetic	Slightly adverse
**Desmodium Nuttallii (Schindl.) Schub. Beggar-weed !ABITAT: ory sandy open woods	Eastern and north- central Texas	to Indiana, northern Nabama, and	Rare	Low for food, occasionally seeds used by Bob-white quail as food	Aesthetic	Slightly adverse

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Desmodium Fernaldii Schub. Tick-trefoil HABITAT: sandy woods	Eastern Texas	Southeastern Virginia to South Carolina, Louisiana, and eastern Texas	Rare	High for food for variety of wildlifeincluding quail	NA	None
Desmodium glabellum (Michx.) DC. Tick-trefoil HABITAT: dry sandy woods	Eastern Texas as far south as Fort Bend County	Southeastern Massachusetts to Michigan and Illinois, south to South Carolina, Alabama, Louisiana, and Texas	NA	High for food for variety of wildlifeincluding quail	NA NA	Unknown
**Desmodium paniculatum (L.) DC. Panicled tick-clover HABITAT: clearings and borders of dry woods	Eastern half of Texas	Eastern half United States	Соятоп	High for food, seeds eaten by gamebirds, small mammals, plants eaten by deer	Aesthetic	Slightly adverse
**Desmodium laevigatum (Nutt.) DC. Beggar-weed HABITAT: dry sandy woods and clearings	Eastern Texas	New York to Indiana and Missouri, south to northern Florida, Tennessee, Louisiana, and Texas	i p	Low for food, occasionally seeds used by Bob-white quail as food	Aesthetic	Slightly adverse
**Lespedeza procumbens Michx. Tralling bush clover HABITAT: roadsides and open sandy woodlands	Eastern and north- central Texas	Eastern and central United States	пА	Moderate for food, seeds eaten by gamebirds and juncos, plants by deer	NA	None
**Lespedeza repens (L.) Bart. Creeping bush Clover HABITAT: sandy or gravelly soil, roadsides, open wood. lands	Eastern Texas, infrequent west to north-central Texas	Eastern and central United States	Сонтоп	Low food value to birds	Aesthetic	None
**Lespedeza violacea (L.) Pers. Prairic clover MABITAT: NA	North-central Texas	Most of northeastern and central United States	On Texas rare and endangered plant list	Moderate for food, seeds eaten by gamebirds and juncos, plants by deer	Aesthetic	Unknown
**Lespedeza Stuevei Nutt. Tall bush Clover HABITAT: sandy or gravelly soil on roadsides and open woodlands	Eastern and north- central Texas	Most of eastern United States	Соптоп	Moderate for food, seeds eaten by gamebirds and juncos, plants by deer	Aesthetic	None
**Lespedeza virginica (L.) Britt. Slender bush clover HABIIAT: roadsides and sandy o,en woodlancs	Eastern and north- central Texas	Eastern United States	Соптол	Moderate for food, seeds eaten by quail, turkey, dove, and junco; plants by deer	Aes thetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Lespedeza hirta (L.) Hornen. Hairy bush clover HABITAT: sandy soils	Eastern and southeastern Texas, rare west to north-central Texas	Easterr United States	Сопяпоп	High for food, seeds important food for Bob-white quail, plant browsed by deer	Aesthetic	None
**Lespedeza striata (Thunb.) H. & A. Japanese bush clover HABITAT: sandy open areas	Eastern Texas, infrequent west to north-central Texas	Widely introduced in North America, native to eastern Asia	Abundant	High for food, seeds important to Bob-white quail, foliage eaten by deer	Aesthetic, cover and soil improwement crop, good for grazing and as hay crop	None
**Vicia angustifolia L. Narrow-Teaved vetch HABITAT: cultivated	Eastern Texas	Widely introduced in United States, native to Europe	Uncommon escape	High for food, seeds and leaves eaten by gamebirds and small mammals	Cover crop, grazing and hay	None
**Vicia minutiflora Dietr. Pygmy-flowered vetch HABITAT: NA	Eastern, south- eastern, and north- central Texas	Southeastern United States	Common	High for food, seeds and leaves eaten by gamebirds and small mammals	Aesthetic, cover crop, grazing and hay	None
Vicia Reverchonii Wats. Hairy-pod vetch HABITAT: NA	Local in vicinity of Dallas, Texas, north-central Texas	Texas and Oklahoma	Locally rare	High for food, seeds and leaves eaten by gamebirds and small mammals	Cover crop, grazing and hay	None
**Vicia <u>ludoviciana</u> Mutt. <u>Deer pea vetch</u> HABITAT: open sandy loam soil	Castern half of Texas, west sparingly to Edwards Plateau	Mississippi, Mississippi, Lorisiana, Oklahoma, Texas, and New Mexico	Cormon	High for food, toth seeds and leaves are eaten by birds and rodents	Aesthetic, cover crop, grazing and hay	None
**Vicia Leavenworthii T.8 G. Leavenworth vetch HABITAT: variety of soils	Eastern half of Jexas	Missouri, Oklahoma, Arlanses, and Texas	Cormon	High for food, seeds and leaves eaten by gamehirds and small marmals	Cover crop, grazing and hay	None
Vicia caroliniana Walt. Sale vetch HABITAT: wooded areas	Eastern lexas and eastern edge of Edwards Plateau	Eastern United States	Rare	Hich for food, seeds and leaves eaten by gamebirds and small mammals	Cover cros, graziny and hay	None
**Vicia villosa Roth Hairy vetch HABITAT: roadsides	Eastern and north- central Texas	Widely introduced in United States, native to Europe	Rareq	High for food; seeds eaten by song sparrows; seeds and leaves eaten by gamebirds and small manmals	Cover crop, grazing and hay	None

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**Vicia <u>dasycarpa</u> Ten. Winter vetch HABITAT: roadsides		= 3	Uncommon	High for food, leaves and seeds eaten by gamebirds and small mammals	Aesthetic, cover crop, grazing and hay	None
**Lathyrus hirsutus L. Singletary pea	Eastern and north- central Texas	Introduced and now widely escaped, native to Europe	Rare escape	HA	Good grazing and hay plant	None
Lathyrus pusillus Ell Pea-vine HABITAT: NA	Eastern, south- eastern, and no th- central Texas	Gulf states north to southern Kansas and Missouri	Uncommon	High for food, leaves and seeds eaten by gamebirds and small mammals	Aesthetic, cover crop, grazing and hay	None
**Lathyrus latifolius L. Perennial sweetpea HESITAL: cultivated,	Statewide	Widely introduced in United States, native to Old World	Rare escape	liA	Seeds are poisonous	None
**Clitoria mariana L Atlantic pigeon wings HABITAT: iiA	Frequent in easter, half of Texas, west to Eastland and Llano Counties and South to Travis and South Astrop Counties	Mostly Lastern United Sta'es, Arizona	Common	W W	Aesthetic	None
**Centrosema virginianum (L.) Benth. Butterfly pea HABITAT: NA	Frequent in eastern half of Texas, west to frath, San Saba, Llano, and Brooks Counties	Southeastern United States	Common	Low food for quail	Aes thet ic	Unknown
Anphicarpaea <u>bracteata</u> (L.) Fern Hog peanut	Eastern and south- eastern Texas, rare west to north-central	Eastern United States	Uncormon	Low food value	YY Y	Unknown
HABIIAI: FA G <u>lycine Max</u> (L) Merr. Soybean HABITAT: edges of fields	Eastern Texas	Southeestern, midwestern, and northeastern United States	Common	Pigh for food	High forage value, soil binder, human food	
**Apics anericana Medic. American potato bean	Eastern, south- eastern and north- central Texas	Southeastern Canada ard eastern United States	Uncommon	Y.	Aesthetic	Slightly adverse
**Erythrina herbacea L. Coral bean HABITAT: sandy woods	Coastal plains inland to central fexas	Coastal states North Carolina to .lexico, cultivated elsewhere	VI II	8	Aesthetic	Unknown

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Galactia <u>regularis</u> (L.) B.S.P. Milkpea HABITAT: dry sandy soil	Southeastern Texas	Florida to Texas, north to New York, Pennsylvania, and Tennessee	Common	Moderate for food, seeds eaten by quail	Aesthetic	None
**Galctia volubilis (L.) Britt. Downy milkpea HABITAT: woodlands	Eastern half of Texas, south and west to Palo Pinto, Burnet, and Cameron Counties	Most of eastern United States	Cormon	Moderate for food, seeds eaten by quail	Aesthetic	None
Pueraria <u>lobata</u> (Willd.) Ohwi Kudzu HABITAT: along road shoulders	Eastern and south- eastern Texas	Widely introduced in warm-temperate moist regions of United States, native of China	Сопинол	Moderate for food, foliage browsed by deer, moderate for cover	Moderate good summer forage, high for erosion considered a noxious weed as capable of choking out all native vegetation	None
Rhynchosia minima (L.) DC. Snoutbean MABITAT: usually in clay soil	Coastal plain inland to Hewton, Houston, Travis, Bexar, and Hidalgo Counties	Coastal Texas, Louisiana, Florida, and Georgia	Cormon	NA	Ground cover, retards erosion	None
**Rhynchosia <u>latifolia</u> (Mutt.) T. & G. Snoutbean HABITAT: sandy woodland	Eastern, south- eastern, and north- central Texas	Missouri, southwest to Louisiana and Texas	Abundant	HA H	Aesthetic	None
Rhynchosia tomentosa (L.) H. & A. Snoutbean HABITAT: woodlands	Eastern Texas	Texas north to Washington D.C., Virginia, Kentucky, and Tennessee	Very rare	NA	Aesthetic	None
Rhynchosia reniformis DC. Dollar-leaf HABITAT: pine woods	Eastern Texas	Coastal states North Carolina to Texas	Uncommon	МА	Aesthetic	None
**Strophostyles helvola (L.) Ell Amberique bean, trailing wildbean PABITAT: yrasslands and open woodlands in sandy soil	Eastern, south- eastern, and north- central Texas	Eastern United States	Сопиюл	Moderate for upland gamebird food	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Strophostyles umbellata (Willd.) Brit. Fuzzy bean HABITAT: sandy soils of pine woodlands	Eastern and southeastern Texas	Eastern United States	Common	Moderate for upland gamebird food	Aesthetic	None
**Strophostyles leiosperma (T. & G.) Piper Slick-seed bean HABITAT: usually sandy loam soil	Eastern, south- eastern, and north- central Texas	Mississippi to Texas, north to Indiana, Minnesota, Nebraska, and Colorado	Locally common	Moderate for upland gamebird food	Aesthetic	None
Vigna luteola (Jacq.) Benth. Wild compea HABITAT: wet places	Coastal tier of counties and inland to Hidalgo County	Tropical America, north to Gulf states, ravely to North Carolina	Common	High for food, seeds and plants eaten by birds and browsing marmals	Livestock food, soil builder, aesthetic	None
Vigna unguiculata (L.) Walp. Black-eyed pea HABITAT: cultivated, edges of fields	Eastern half of Texas	Nidely introduced and cultivated, native of Asia	Rare	Moderate for food, seeds eaten by birds	Forage crop, also eaten by humans	None
<pre>KRAMERIACEAE (ratany family) **Krameria lanceolata Torr. frailfing ratany HABITAT: variety of habitats</pre>	Statewide except the wettest, densest pine forests of eastern Texas	Kansas to Arizona, south to Hexico and Texas	Conmon	۲. V	Aesthetic	None
GERAWIACEAE (geranium family) **Geranium carolinianum L. Carolina geranium HABITAT: dry rocky woods and fields, about boulders, on gravelly or clay flats and wastelands	Statewide, especially in central part	From Northeast, south to Florida and Texas, west to Michigan, Illinois, Missouri, Kansas, Wyoming, and Idaho	Сонтоп	Low food value	Aesthetic	None
**Geranium texanum (Trel.) Heller Texas geranium HABITAT: clayey or sandy	Central and southern Texas	Endemic to Texas	ИА	Low food value	Aesthetic	None
OXALIDACEAE (wood-sorrel family) **Oxalis violacea L. Violet wood-sorrel HABITAT: sandy soils	Eastern fourth of Texas	Southern half United States from Florida to New Mexico and Massachusetts to Colorado	Сонтол	Low food value	Aesthetic	None

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**Oxalis Dillenii Jacq. Wood-sorrel HABITAT: sandy, rocky, or gravelly soils in thickets, woodlands, pastures, river bottoms, and limestone banks	Statewide	Eastern and central United States	Very common	Low food value	Aesthetic	1
LIMACEAE (flax family) **Linum medium (Planch.) Britt. Sucker flax KARITAT: open fields, meadows, and swales	Eastern Texas	Texas to Florida, north to Iowe and Maine	V.	Noderate as food for wildlife including deer and turkey	Aesthetic	None
**Linum rigidum Pursh Flax HABITAI: sandy, gravelly, open areas	Northern Texas	Texas, north to Canada	NA	Poderate as food for wildlife including deer and turkey	Aesthetic	None
ZYGOPHYLLACEAE (caltrop family)						
**Kallstroemia <u>parviflora</u> Hort. Kallstroemia HABITAT: YA	Most of Texas except eastern and southeastern Texas, High Plains and the southernmost Rio Grande plains	Southern United States	Cormon	٧١،	Aesthetic	Unknown
**Tribulus terrestris L. Puncture weed HABITAT: sandy or gravelly, disturbed soils	Statewide except coastal and far eastern areas	Hidely distributed throughout warm- temperate areas of the world, native to Mediterranean region	A.bundant	Lov food value	Aesthetic, occasionally fatal to stock if ecten, weed	None
RUTACEAE (citrus family)						
**Citrus trifoliata L. Bitter orange HABITAT: infrequent near old home-sites and in fencerows, cultivated	Eastern half of Texas	NA, native of Asia	Uncormon	٧٧	liA	None
**Ptelea trifoliata L. Skunk-bush HABITAT: MA	Statewide, scattered	NA.	ИА	ня	NA	None
**Zanthoxylum Clava-Herculis L. Hercules-club LABLTAT: forested areas	Lastern and south- eastern Texas	Southeastern United States	Correon	Moderate as food for wildlife ircluding deer, squirrel, turkey	Ornamental	Slightly adverse

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MELIACEAE (mahogany family) **Melia Azedarach L. Chinaberry-tree HABITAT: thickets, floodplain woods and borders of woods, cultivated	Eastern half of Texas	Cultivated and escaped as far north as south-eastern Virginia, native of Asia	Ur.common	Moderate as food; berries eaten by birds, sometimes intoxicating and toxic	Ornamental, wood of moderate commercial value	Slightly adverse
POLYGALACEAE (milkwort family) **Polygala cruciata L. Polygala HABITAT: in and on edge of bogs, on seepage slopes, and in savannahs	Eastern Texas	From Florida to eastern Texas, north along the coast to Virginia and inland to Kertuck)	NA	NA	Aesthetic	None
**Polygala ramosa Ell. Polygala HABITAT: in seepage areas of savannahs, open slopes, boggy open pineland	So.:theastern Texas	From Florida to Texas, north to New Jersey	NA	nA	Aesthetic	None
EUPHORBIACEAE (;purge family) **Phyllanthus polygonoides Spreng. Leaf-flower HABITAT:rocky, calcareous	Central, southern, and western Texas	Oklahora and Texas, with outliers in Missouri and Louisiana	Conmon	Νδ	Aesthetic	None
**Phyllanthus pudens Wheeler Lead-flower HABITAT: coastal prairie	Coastal prairies from Matagorda County to Chambers County	Texas and Louisiana	NA	иA	Aesthetic	None
**Croton punctatus Jacq. Gulf croton HABITAT: locse deep sands	Texas ccastal areas	Cuastal areas from North Carolina to Venezuela	Locally abundant	High for food, seeds important food for songbirds and gamebirds especially white-winged cove, eaten to lesser extent by small mammals	A5	None
**Croton glandulosus L. Croton HABITAT: open sandy or loamy areas	Statewide	Southeastern United States	Common	High food value for NA upland gamebirds and songbirds	NA	None

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**Euphorbia maculata L. Spurge HABITAT: in a variety of soils, commoner in disturbed sandy areas	Statewide except Trans-Pecos	Eastern United States, adventive in California, and Oregon	Common	Moderate to high food value for birds and small mammals	Aesthetic	None
** <u>Euphorbia prostrata</u> Ait. Spurge HABITAT: disturbed soils	Statewide, infrequent in far western part	Lowlands of United States	าตรเกา	Moderate to high food value for birds and small mammals	NA	None
ANACARDIACEAE (sumac family)						
**Rhus Toxicodencron L. Poison ivy HARITAT: variety of habitats	Statewide	Nova Scotia to British Columbia; south to Florida, Texas, Arizona	Соппоп	Moderate as food, fruit eaten by birds, particularly gallinaceous	Aesthetic, very poisonous to the touch, fumes from burning plants also poisonous	None
**Rhus glabra L. Smooth sumac HABITAT: dry sandy hillsides and banks	Eastern Texas, west to Brazos, Eastland, and Armstrong Counties	New England and Quebec; south to Florida, Texas, Arizona, and northern Mexico	Сочтоп	High as food for variety of wildlife including deer, squirrel, turkey; cover	Ornamental	None
**Rhus copallina L. Shining sumac HABITAT: rocky hills, woods, bottomlands	Eastern half of Texas	New England to Illinois; south to Georgia, Alabama, Louisiana, and Texas	11A	High as food for variety of wildlife including deer, squirrel, turkey; cover	Ornamental, planted for its lustrous leaves that change to reddish-purple in fall	None
**Rhus eromatica Ait. Fragrant sumac HABITAT: variety of habitats	Statewide	Eastern half of United States	Соптоп	High as food for variety of wildlife including deer, squirrel, turkey:	Ornamental	None
AQUIFOLIACEAE (holly family)						
**Ilex decidua Walt. Deciduous holly HABITAT: woods; often bordering streams, swamps, or ravines	Eastern and central Texas	Virginia, west to Illinois south to Florida, Texas, and Kansas	Соптон	High as food for wildlife including deer, squirrel, turkey high for cover	Ornamental	Slightly adverse

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**Ilex vomitoria Ait. Yaupon HABITAT: low woods and sandy pine lands	Southeastern and south-central Texas	Virginia south to Florida, Arkansas, and Texas	Abundant	High as food; fruit eaten by songbirds, game- birds, and small mammals; evergreen foliage provides shelter for birds and mammals	Historical value	Slightly adverse
**Ilex opaca Ait. American holly HABITAT: in moist woods, harmocks, along banks of streams, and in swamps	Eastern and south-central Texas	Massachusetts west to Wisconsin, south to Florida and Texas	Abundant	High as food for wildlife including deer, squirrel, turkey; high for cover	Historical value, decorative use at Christmas time	Slightly adverse
**Euonymus americanus L. **Euonymus americanus L. \$trawberry-bush HABITAT: mud along streams, river bottomlands and on forested stream banks	Eastern Texas	Southeastern United States	TA TA	Woderate as food for wildlife including deer and turkey	Aesthetic	Moderate·ly adverse
**Euonymus atropurpureus Jacq. Burning-bush HABITAT: rich moist woods, thickets and ravines	North-central Texas	Central United States, Canade south to Texas and Oklahoma	Ti.A	Woderate as food for wildlife including deer and turkey	Aesthetic	Moderately adverse
ACERACEAE (maple tamily) **Accer Negundo L. Boxelder HABITAT: river banks, waste places, floodplain ₩oods, fencerows	Eastern half of Texas	Florida to Texas; north to western Hew England, New York, southern Ontario, and southeastern Minnesota	Uncommon	Moderate as food, seeds eaten by birds and squirrels	Ornamental; wood of commercial value; sugar, and gum	Moderately adverse
**Acer saccharum Marsh. Sugar maple HABITAT: forested hills and in ravines	Northeastern Texas	Eastern half United States	Uncommon	High as food for gamebirds, songbirds, small mammals, hoofed browsers; nesting sites for birds	Ornamental, historical velue, source of maple syrup and sugar, wood of commercial	Moderately adverse
**Acer rubrum L. Red maple HABITAT: swamps, along streams or in alluviel woods	Eastern Texas	Florida to Texas, north to Canada	Unconmon	High as food; seeds eaten by chipmunks, game- birds, squirrels, and songbirds, forage by deer	Aesthetic, ornamental, sugar and gum	Moderately adverse

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**Croton capitatus Michx. Woolly croton HABITAT: sandy soil	Eastern half of Texas	Southeastern United Texas	Uncommon	High as food for wildlifeincluding quail, doves	Aesthetic	None
**Croton Lindheimerianus Scheele Croton HABITAT: sandy or alluvial usually disturbed soil	North-central Texas	Texas, Oklahoma, Kansas, Arkansas	Locally common	High food value for upland game- birds and songbirds	NA	None
**Croton monanthogynus Michx. Prairie-tea HABITAT: calcareous soils	Statewide except Trans-Pecos deserts and higher parts of plains country	Southeastern United States	Abundant	High for food, seeds important food for songbirds and gamebirds, especially white-winged dove; eaten to lesser extent by small mammals	МА	None
**Crotonopsis linearis MIchx. Rush-foil HABITAT: deep, loose, fine sand, openings in forested areas	Eastern Texas	Southeastern United States	Rare	High for food, major food for quail	AN	None
**Acalypha ostryaefolia Ridd. Three-seeded mercury HABITAT: dry soils in open woods and woadsides	Eastern and southeastern Texas	Pennsylvania to southern Florida, Iowa and Oklahcma to western Texas, New Mexico, and Arizona	VN .	רטא food value	NA	None
**Acalypha rhonboidea Raf. Three-seeded mercury HABITAT: moist to dry sandy sites	North-central to southeastern Texas	Naine; south to Georgia and Louisiana; west to Michigan, Minnesota, North Dakota, and Texas	Rare	None	MA	None
**Acalypha virginica L. Three-seeded mercury HABITAT: moist or dry sandy soil	North-central Texas	New Hampshire, south to South Carolina, Georgia and Louisiana, west to Iowa and Nebraska, south to Texas	NA	Low food value	NA	None
**Acalypha gracilens Gray Three-seeded mercury HABITAT: dry sandy scils	North-central Texas	Maine, New York and Minnesota, south to southern Florida and Texas	Rare	None	NA	None
**Tragia cordata Michx. Noseburn HABITAT: rocky, wooded bluffs along streams, rich soil in open woods	Eastern Texas	Southeastern United States	NA	Low for food for dove	NA A	None

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Species	State Range	United States Runge	Abundance in Region	Use for Usidiife Pabitat	Other Values	Project Impact
**Tragia ramosa Torr. Noseburn HABITAT: open and disturbed habitats	Central and south- western Texas	South-central and southwestern United States	Солтол	Low for dove food	NA	None
**Sapium sebiferum (L.) Roxb. Chinese tallow tree HABITAT: scattered along rivers, thickets, woods,	Southeastern Texas	Windely introduced throughout, native of Asia	Locally abundant	Low for food, seeds eaten by birds	Historical value, sap is poisonous, ornamental	None
** <u>Stillingia sylvatica</u> L. Queen's delight HABITAT: loose sandy soil	Statewide except Trans-Pecos	Southeastern and south-central Unitec States	Согтоп	Low for food, sometimes eatern by Bob-white quail	Aesthetic	None
**Cnidoscolus texanus (Mueil. Arg.) Small Bull nettle HABITAT: sandy often dist.rbed soils	Kearly throughout Texas	Louisiana, Cklahoma, Arkansas, Texas	Rare	иА	114	None
∵*Euphorbia spathulata Lar. Spurge, Warty Euphorbia HACITAT: vari≅ty of halitats	Statewide	Widespread in temporate Morth America	Abundant	Hoderate to high food value for birds and small marmals	नार	None
"Euphorbia bicolor Engelr, and Gray Snow-on-the-prairie PABITAT: coastal plain, tight clay soil	Scutheastern caas, hare in eastern, and north-central lexas	fezas end Cklahora	Abundant	High for food, seeds eacen by upland gamebirds, songbirds, and small mammrals	hesthetic	None
**Euphorbia dentata Michx. Spurge MABITAT: variety of habitats	Statewide	Eastern two-thirds United States	Abundant	Moderate to high food value for birds and small mammals	KA	None
'* <u>Euphorbia missurica</u> Raf. Spurge HABITAT: variety of habitats	Statewide except Trans-Pecos	Central United States	Common	Moderate to high food value for birds and small mammals	NA	None
** <u>Euphorbia nutans</u> Lag. <u>Eyebane</u> HABITAT: variety of habitats	Statewide, iocal in plains and Irans-Pecos	Texas, north to South Dakota, Minnesota, Michigan, New York, and New England	Abundant	Moderate for food, seeds eaten by gamebirds, song- birds, rats and mice	Aesthetıc	None
**Euphorbia serpens H.B.K. Spurge HAEITAT: usually in Calcareous soils	Statewide	North to Ontario, Obio, Indiana, New Mexico, and Arizona	Соптоп	Moderate to high food value for tirds and small arrais	NA	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
SAPINDACEAE (soap-berry family)			And desirable to the same the fact of the same the same to the same to the same the same to the same to the same the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to t	orwania del coloritazione dell'Argonia dell'Argonia dell'Argonia dell'Argonia dell'Argonia dell'Argonia dell'A		
**Sapindus <u>Saponaria</u> L. <u>Soap-berry</u> HABITAT: form groves in fields and on the edge of woods, along streams and fencerows	Scattered statewide	From Louisiana, north to Kansas, west to New Mexico and Mexico	Соттоп	A	May be used as an ornamental, toxic plant	Slightly adverse
**Cardiospermum <u>Halicacabum</u> L. Balloon-vine HABITAT: sprawling on ground and trailing over weeds and bushes in open waste ground or brushy areas	Northeastern, central, and southern Texas	Widespread in warmer regions of Western Hemisphere	Сомтол	NA A	N N	None
RHAMNACEAE (buckthorn family)						
**Ceanothus herbaceus Raf. Redroot HABITAT: well-drained clays and loams in prairies or open brush, or in crevices of limestone bluffs	North-central and south-central Texas, Panhandle, and Edwards Plateau	Eastern United States	Uncommon	High for food, important plant for browsers; cover	NA	None
**Rhamnus lanceolata Pursh Buckthorn PABITAT: bottomland hardwood forests	Eastern Texas	Eastern half United States	Uncommon	High food value for birds and mammals	Aesthetic	Slightly adverse
**Rhamnus caroliniana Walt. Indian-cherry HABITAI: bottomlands, near streams	Eastern and south- eastern Texas, west near streams into north-central and south-central Texas, and Edwards Plateau	Southeastern United States	Uncommon	High as food for wildlife including deer, squirrel, turkey	Fruit edible	Slightly adverse
**Berchemia scandens (Hill) K. Koch Rattan-vine HABITAT: forests and forest- edges, ravines	Eastern, southeastern, north-central, south- central Texas, southern portion of Edwards Plateau	From Virginia to Missouri, south to Florida and Texas	Uncommon	High as food for wildlife including deer, squirrel, turkey	NA	Slightly adverse
**Vitis mustangensis Buckl. Mustang grape HABITAI: along stream bottoms, thickets, fencerows, edge of woods and sandy slopes, dicturbed ground	Eastern half of Texas	Texas to Louisiana, Oklahoma, and Arkansas	Соптоп	High food value for wildlife-song birds, gamebirds, small manmals, game marmals; protective covering and nesting sites for birds	Ornamental, fruit edible, used for making wine	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Vitis cinerea Engelm. Sweet grape HABITAT: river and creek banks, bottomlands, and pond margins	North-central and eastern Texas	Southeastern and central United States	Conmon	High food value for wildlife songbirds, gamebirds, small mammals, gamemammals; protective covering and nesting sites for birds	Ornamental, fruit edible	Slightly adverse
**Vitis Lincecumii Buckl. Post oak grape HABITAT: sandy open woods, thickets, and glades	Eastern and south- central Texas, west to Bastrop County	Mississippi to Texas, north to Indiana and Missouri	Солипоп	High food value C for wildlife f songbirds, game-birds, small mammals, game manmals; protective covering and nesting sites for birds	Ornamental, fruit edible	Slightly adverse
**Vitis aestivalis Michx. Summer grape HABITAT: sandy scils mostly along rivers and streams	Eastern third of Texas	Georgia to Texas, north to Massachusetts, New York, Ohio, Hichigan, and Kisconsin	Uncorraion	High food value for wildlife— songbirds, game- birds, small rannals, game mammals; protective covering and nesting sites for birds	Grnamental, fruit ecible	Slightly adverse
**Yitis rotundifolia Michx. Ruscadīne HABITAT: forests	Eastern Texas	Florida to Texas, north to Delaware, Virginia, West Virginia, Indiana, Missouri, and Oklahoma	Совито п	High food value for wildlife songbirds, game- birds, small manmals, game mammals; protective covering and nesting sites for birds	Ornamental, fruit edible	Slightly adverse
**Vitis riparia Michx Frost grape HAB/1AT: trees and ciiffs in open woodlands, along streams and in canyons	Eastern to north- central Texas	Canada and Montana south to Tennessee, Missouri, Texas, and Hew Mexico	Uncorrion	High food value for wildlife songbirds, game- birds, small mammals, game mammals; protective covering and nesting sites for Lirds	Ornamental, fruit edible	Slightly adverse

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Vitis palmata Vahl Red grape HABITAT: on margins of ponds or sloughs, or in low woods	Eastern Texas	Louisiana and Texas, north to Indiana, Illinois, and Iowa	Uncoopiio.	High food value for wildlife songbirds, game-birds, small mammals, game mammals; protective covering and nesting sites for birds	Ornamental, fruit edible	Slightly adverse
**Vitis vulpina L. Winter grape HABITAT: edge of woods and in woods, fields, along roadsides and on trees along rivers and streams	Eastern third of Texas	Florida to Texas, north to New Jersey, Wisconsin, and Nebraska	Соптиол	High food value for wildlife songbirds, game-birds, small mammals, game marmals; protective covering and nesting sites for birds	Ornamental, fruit edible	Slightly adversc
**Parthenocissus quinquefolia (L.) Planch. Virginia creeper Habitat: in woods and on rocky banks, in open woodlands, on fences and edge of forests	Eastern half of Texas	Eastern third of United States	Corrron	High food value for wildlife songbirds, game- birds, small manmals, game manmals; protectiv: covering and nesting sites for birds	Ornamental	Slightly adverse
**Appelopsis cordata Michx. Heartleaf HABITAT: rich woodlands and bottomlands along rivers and streams	Eastern half and the Panhandle of Texas	Southeastern United States	Соптол	Food for squirrel	ИA	Slightly adverse
**Ampelopsis arborea (L.) Koehne Pepper-vine HABITAT: along streams, in and on edge of swamp forests, in fencerows and waste places	Southern and eastern Texas	Southeastern United States	Conmon	Food for squirrel	ИА	Slightly adverse
**Cissus incisa (Nutt.) Des Moul. lvy treebine HABITAT: chaparral, salt marshes and open woodlands	Statewide except extreme eastern Texas and in Panhandle	Florida to Texas, north to Missouri and Kansas	Соптол	NA N	Ornamental	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
TILIACEAE (linden family)						
**Tilla americana L. American basswood HABITAT: rich moist soils of woods and bottomlands	Northeastern Texas	From Canada south to Virginia and Alabama; west to North Dakota, Kansas, and Texas	Common	Noderate as food and wildlife cover, fruit eaten by birds and rodents	Ornamenta]	Slightly adverse
**Tilia caroliniana Mill. Carolina basswood HABITAT: open woodlands, along forested streams and lowlands	Eastern and central Texas	North Carolina, south to central Florida; west to southwestern Arkansas and Texas	Common	Moderate as food for squirrels	NA	Moderately adverse
**Tilia floridana Small Florida basswood HABITAT: rich woods	Eastern and central Texas	Southeastern United States	Common	Moderate as cover, ninor food importance for small mammals and browsers	Aesthetic	Moderately adverse
MALVACEAE (mallow family)						
**Malvaviscus arboreus Cav. Drummond wax-mallow HABITAT: limestone slopes and ledges, in wooded arroyos, along streams	From southern Edwards Plateau southward and eastward	Florida to Texas	Uncommon	VI	Fruit edible	Slightly adverse
Kosteletzkya virginica (L.) Gray Salt marsh-mallow HABITAT: brackish or nearly fresh marshes and along shores and in swamps	Coastal Texas	From Florida to Texas, north to Virginia and Delaware	на	IIA	Aesthetic	None
Hibiscus <u>dasycalyx</u> Blake and <u>Schiller</u> Rose-mallow HABITAT: NA	Trinity County	Endemic to Texas	On Texas rare and endangered plant list	ИА	High aesthetic, scientific	None
**Hibiscus militaris Cav. Scarlet rose-mallow HABITAT: marshes, shallow water	Eastern and north- central Texas	Florida to Texas, north in the interior to Ohio and Minnescta	иА	КA	Aesthetic	Slightly adverse
**Hibiscus trionum L. Flower-of-an-hour HABITAT: introduced	Central and northern Texas	Introduced, native of central Africa	Common	иА	Aesthetic, weed	Slightly adverse
Hibiscus <u>cubensis</u> A. Rich. Rose-mallow HABITAT: marshes and along canals	Southeastern Texas	Temperate and tropical America	HA.	ия	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Hibiscus Moscheutos L. Swamp rose-mallow HABITAT: low wet areas on edge of woods, swamps and wet meadows	Eastern Texas	Southeastern United States	Common	ия	NA	None
**Hibiscus lasiocarpos Cav. Woolly rose-mallow HABITAT: marshes, floodplains, ditches, and along streams and rivers	Eastern to north- western Texas	Georgia to Texas; north in the Mississippi basin to Kentucky, Indiana, Illinois, and Missouri	Cormon	NA	Aesthetic	Slightly adverse
Gossypium hirsutum Cotton HABITAT: cultivated	Statewide	Southeastern United States	Соммол	Low food value, nest material	High commercial value	None
Callirhoë Papaver (Cav.) Gray Poppy-mallow HABIT ^{6.—} in pine-oak flatwoods, on care e outcrops and grassy banks	Eastern Texas	From Florida to Texas, north to Georgía and Missouri	ИА	ИА	Aesthetic, may be cultivated	None
**Callirhoë involucrata (Torr.) Gray Low poppy-mallow HABITAT: sandy or gravelly soils in open woods, on rocky hills, in scrubland and thickets	Statewide, except in Irans-Pecos	Central United States	Cormon	<:	Aesthetic, may be cultivated	Slightly adverse
**Malva parviflora L. Little mallow HABITAT: thickets, along waste ground and cultivated soils	Statewide	Distributed over much of North America	Common	Low food value	Aesthetic	Slightly beneficial
**Modiola caroliniana (L.) G. Don Carolina modiola HABITAT: in waste grounds, disturbed soils, edge of salt marshes, lawns, and similar places	Mostly in southern Texas, but occasionally elsewhere	From Florida to Texas, north to Virginia and south to South America	Common	ИА	NA	Slightly beneficial
**Sida hederacea (Hook.) Gray Dollar weed, alkali mallow HABITAT: rocky or silty soils along irrigation canals and in depressions	Panhandle and Trans-Pecos	Washington and Idaho, south to Mexico and east to Kansas, Oklahoma, and Texas	Uncommon	V.	W.	Slightly beneficial

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**Sida spinosa L. Prickly mallow HABITAT: in waste lands and disturbed soils	Southern and eastern half of Texas	Mostly in the tropics	Соптоп	ИА	Aesthetic, weedy	Slightly beneficial
**Sida rhombifolia L. Mallow						
HABITAT: sandy-clayey soils in brushlands, meadows, low open woods and alluvial soils	Eastern third of Texas	North Carolina to Florida and Texas, mostly in the tropics	иA	NA	Aesthetic	Slightly beneficial
THEACEAE (camellia family)						
Stewartia Malacodendron L. Silky camellia HABITAT: on wooded banks, hillsides and along streams	Eastern Texas	Western Florida to Louisiana and Texas, north to Virginia, Tennessee, and Arkansas	On Texas rare and endangered plant list	на	High aesthetic, scientific	None
HYPERICACEAE (St. John's-wort family)	~					
**Ascyrum stans Michx. St. Peter's-wort HABITAT: sandy bogs, swamp woods and moist grasslands	Eastern Texas	Florida to Texas, III north to New York, New Jersey, eastern Pennsylvania, Kentucky, Tennessee, Arkansas, and Oklahoma	IIA	NA	Aesthetic	Slightly adverse
**Ascyrum hypericoides L. \$t. Andrew's cross	Eastern third of Texas	Florida to Texas, and eastern Mexico; north to New England, Kentucky, Missouri, and Oklahoma	Common	NA A	Aesthetic	Moderately adverse
**Hypericum punctatum Lam. St. John's-wort HABITAT: open-wooded hills, and on edge of woods and fields	North-central and northeastern Texas	Florida to Texas, north to Quebec and Minnesota	IIA	иА	Aesthetic	Slightly adverse
Hypericum pseudomaculatum Bush St. John's-wort HABITAT: moist or dry soil in fields	Eastern Texas	Florida to Texas, north to Oklahoma and Illinois	RA	NA	NA	None
Hypericum densiflorum Pursh St. John's-wort HABITAT: pinewood slopes and in and on the edge of swamps and marshes, and along wooded streams	Southeastern Texas	Florida to Texas, north to New York, New Jersey, West Virginia, southern Indiana, and southern Rissouri	НА	NA NA	NA	None

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**Hypericum prolificum L. Shrubby St. John's-wort HABITAT: dry or damp sandy or rocky thickets, along wooded streams and on slopes	Southeastern Texas	Georgia to Texas and Arkansas, north to southeastern Hew York, Ontario, and Minnesota	на	ИА	Aesthetic	Moderately adverse
Hypericum frondosum Michx. Golden St. John's wort HABITAT: in barrens and openings	Eastern Texas	Alabama to Texas; north to South Carolina, Kentucky, and southern Indiana	Соптол	нА	Frequently cultivated, ornamental	None
Hypericum galioides Lam. St. John's-wort HABITAT: wet pinelands, swamps and depressions, about ponds and lakes, and	Southeastern Texas	Florida to Texas, north to Tennessee and North Carolina	иA	нА	м	None
Hypericum fasciculatum Lam. Sand-weed HABITAT: wet places about ponds and lakes, in low pinelands and along forested streams	Southeastern Texas	Florida to Texas, north to Korth Carolina	ПĀ	V V	NA	None
**!!ypericum mutilum L. St John's wort HABITAT: on the edge of and in water of streams, ponds, swamps and other wet situations	Central and eastern Texas	Florida to Texas; north to southern New England, certral New York, Ohio, Illinois, Missouri, and Kansas	IIA	NA	Aesthetic	Moderately beneficial
Hypericum gymnanthum Engelm. and Gray St. John's-wort HABITAT: sandy soils in barrens or low ground	South-central and southeastern Texas	Eastern United States locally	нА	НА	Aesthetic	None
Hypericum Drummondii (Grev. and Hook.) T. & G. Nits-and-lice HABITAT: dry sandy or gravelly soils in tallow fields, open scrub oak and cedar-oak flatwoods	Central and eastern Texas	Southeastern United States	НА	ИА	Aesthetic	None
Hypericum virginicum L. Marsh St. John's-wort HABITAT: in or on the edge of water along streams, in bogs and swamps, and about lakes and ponds	Eastern Texas	Florida to Texas; north to Nova Scotia, southern New England, New York, Ohio, Indiana, and Illinois	HA H	M A	NA	None -

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Hypericum Walteri Gmel. St. John's-wort HABITAT: in or on the edge of water along streams, in bogs and and swamps, and about ponds and lakes, sometimes on cypress knees and trunks, logs and occasionally on moist sandy wooded slopes	Eastern Texas	Florida to Texas; north to Maryland, West Virginia, southern Indiana, and southeastern Missouri	ИА	ĮĮ.	Aesthetic	Moderately beneficial
Hypericum tubulosum Walt. St. John's -Wort HABITAT: wet soil of wouded swamps, open floodplain woods and on lake shores	Southeastern Texas	Coastal plain from southeastern Virginia to southeastern Texas, northwest in the interior to southern Hissouri and southern Ohio	NA NA	ry	пА	Rone
<pre>TAWARICACCAE (tamarisk family) **Tamarix gallica L. Salt cedar HABITAT: cultivated</pre>	Scattered	Introduced, southern United States, native of southern Europe	Uncommon	Low food value, moderate to high as cover	нА	Slightly beneficial
CISTACEAE (rockrese family) Helianthemum carolinianum (Walt.) Eastern Texas Michx. Roc.rose HARITAT: sandy fields, road- sides, open woods	Eastern Texas	Florida to Texas, north to southeastern Worth Carolina and southern Arkansas	БА	V:	Aesthetic	None
Hellanthemum georgianum Chapm. Rockrose HABITAT: dry open sandy fields, woods	Eastern Texas	Florida to Texas, north to southeastern North Carolina and southern Oklahomu	NA NA	NA	Aesthetic	None
**Helianthemum rosmarinifolium Pursh Rockrose HABITAT: sandy fields, roadsides, open woods	Eastern Texas	Florida to Texas, north to southeastern North Carolina and Arkaas	пА	NA	Aesthetic	None
**Lechea mucronata Raf. Pin-weed HABITAT: sandy fields and roadsides, open woods and hillsides	Eastern half cf Texas	Flori'a to Texas, north to southern New Hampshire and Nebraska	Cormion	Low food value for songbirds	Aesthetic	None

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**Lechea san-sabeana (Buckl.) Hodg. Pin-Weed Pin-Meed Pin-Meed Pin-Meed Pin-Meed	East-central Texas	Endemic to Texas	ИA	Low food value for songbirds	Aesthetic	None
**Lechea tenuifolia Michx. Pin-weed HABITAT: roadsides, fields, and open woods	Eastern Texas	Georgia to Texas; north to southern Maine, Minnesota, and Mebraska	IIA	Low food value for songbirds	Aesthetic	None
VIOLACEAE (violet family) **Viola Rafinesquii Greene Field pansy HABITAT: roadsides, fields, and lawns	Eastern Texas	Texas to Georgia; north to Pennsylvania, Michigan, and Nebraska	Abundant	Moderate as food, seeds eaten by birds and small mammals	Aesthetíc	None
Viola <u>Wateri</u> House Violet HABITAT: moist to somewhat dry rich deciduous forests	Southeastern Texas	Texas to Florida; north to Virginia, Ohio, and Arkansas	RA	Moderate food value for birds and small manmals	Aesthetic	None
Viola primulifolia L. Violet HABITAT: roadside ditches, open marshy fields	Eastern Texas	Texas to Florida; north to Hova Scotia, northern Indiana, and Oklahoma	Abundant	Poderate food value for birds and small mammals	Aesthetic	None
Viola pecata L. Bird-foot violet HABITAT: open woods or fields, usually in andy soil	Eastern Texas	Texas to Georgia, north to New Nampshire and Minnesota	٧n	Moderate food value for birds and small mammals	Aesthetic	None
**Viola esculenta Ell. Violet HABITAT: wet open land	Southeastern corner of Texas	Texas to southern Florida, north to southern Virginia and northern Mississippi	tiA	Moderate food value for birds and small mammals	Aesthetic	None
Viola scrorfa Willd. Violet HABITAT: woodland habitats of all sorts	Esstern half of Texas	Texas to northern Florida, north to Quebec and Horth Dakota	Common	Moderate food value for birds and small mammals	Aesthetic, weed	None
**Violu pratincola Greene Violet MABITAT: open prairie, often beside railroads	Eastern half of Texas, Panhandle	Texas, north to Wisconsin, North Dakuta; and west to Colorado	Uncommon	Moderate food value for birds and small mammals	Aesthetic, sometimes a weed in towns and cities	None
**V(ola <u>Langloisii</u> Greene Violet HABITAT: river forests	Eastern Texas, especially in south- eastern; central Texas	Central Texas; east to central Florida; north to northern Hississippi	нд	Moderate food value for birds and small mammals	Aesthetíc	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Wildl , 't	Other Values	Project Impact
**Viola missouriensis Greene Viole: HABITAT: river forests	Central and northcastern Texas	Texas, east to Arkansas, north to Minnesota and Lebraska, and west to New Mexico	Солтол	Moderate rood, seeds eaten by small rodents and gamebirds	Aesthetic	Slichtly adverse
PASSIFLORACEAE (passion-f'owe family) **Passiflora lutea L. Yellow passion-flower HABITAI: shade of low moist woods	y) Central and eastern Texas	Pennsylvania to Illinois and Kansas, south to Florida and Texas	Сотпоп	N A	Aesthetic	Moderately adverse
**Passiflora incarnata L. Maypop HABITAT: old fields, along roadsides and streams, and in and on the edge of coen woods	Eastern third of Texas	Virginia to Missouri, south to Florida and Texas, introduced further north in United States	Соптол	f4.	Aesthetic, fruit edible	None
Mentzelia oligosperma Sims Stick-leaf HABITAT: limestone bluffs in wooded areas, shell debris, sandy or clay soils	Statewide	Texas, northern Arkansas, Missouri, and South Dakota to Colorado	Conmon	Low value food for quail	Aesthetic	None
Mentzelia Reverchonii (Urban and Gilg) Thomps, and Zavortink Stick-lea: HABITAT: grave:ly and limestone soils	Statewide, except the extreme eastern portion	Texas, southeastern Colorado, southwestern Oklahoma, eastern Hew Mexico into northern Mexico	Corvnon	Low value food for quail	Aesthetic	None
CACTACEAE (cactus family) **Opuntia leptocaulis DC. Desert Christmas cactus HABITAT: heavier and bottomland srils	Western and southern Texas	Arizona to New Mexico, Oklahoma, and western and southern Texas	Uncommon	High as food, seeds and fruits eaten by birds, rabbits, and rodents; vegetative parts and fruits eaten by deer	Ornamental, fruit edible	None
Opuntia Lindheimeri Engelm. Texas prickly pear HABITAT: dry sandy soil	Statewide	Texas, New Mexico, Louisiana	Common	High as food, plant and fruit eaten by wildlife; cover	Ornamental, fruit edible, living fence	None

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Charter	State Range	United States Range	Abundance in Region	Use for Uildlife Habitat	Other Values	Project Impact
LYTHRACEAE (1.00sestrife family)						
Decodon verticillatus (L., tll., Water-willow HABITAT: in swamps, shallow pools, in and on margin, of ponds and lakes	Eastern Texas	Florida to Texas; north to New England, New York, southern Ontario, and southern Illinois	Common	NA	Aesthetic	None
**Lythrum lanceolatum Ell. Loosestrife HABITAT: meadows, prairies, ditches, and depressions	Eastern third of Texas	Texas and Oklahoma; east to Florida, Virginia, and Tennessee	Соттоп	Low food value	N A	None .
**Ammannia <u>coccinea</u> Rottb. Tooth-cup HABITAT: mud of ditches, ponds, lakes, streams	Eastern, central, and extreme southern Texas	Florida to Texas and Mexico; north to Ohio, Illinois, Minnesota, Nebraska, Montana, and Washington	Согтол	NA N	Aesthetic	Slightly beneficial
Anmannia <u>teres</u> Raf. Ammannia HABITAT: swamps and tidal marshes	Southeastern Texas	From Florida to Texas, north to New Jersey	Uncomion	NA NA	Aesthetic	None
Peplis diandra Mutt. Water-purslane HABITAT: shallow water and cn margin of water of ponds and lakes	Eastern Texas	Florida to Texas; north to Virginia, Ohio, Indiana, and Wisconsin	On Texas rare and endangered plant list	NA	High aesthetic, scientific	None
**Rotala ramosior (L.) Koehne Tooth-cup HABITAT: sandy or muddy soil in water or on the edge of ponds, lakes, tanks, and in depressions	Eastern half of Texas	Florida to Texas; north to New England, New York, and the Lake States; also Washington and Oregon	Cranon	liA	Aesthetic	Moderately beneficial
MELASTOMATACEAE (melastoma family) **Rhexia petiolata Walt. Meadow beauty HABITAT: peaty or sandy soils of moist pinelands	Southeastern Texas	Alcng coast from southeastern Virginia to central Florida, west to Texas	NA	NA	NA	Unknown
Rhexia lutea Walt. Meadow beauty HABITAT: moist savannahs and open pinelands	Southeastern Texas	Along coast from eastern North Carolina to northern Florida, west to Texas	NA	NA	NA	Unknown
**Rhex's mariana L. Neadow beauty HABITAT: ditches, wet meadows, seepage bogs, savammahs, edge of thickets, wet or moist places	Eastern Texas	Massachusetts; south to Georgia; west to Texas and Oklahoma; northwest to Hissouri, Illinois, and Indiana	Соптол	ИА	II.A	Slightly beneficial

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
ONAGRACEAE (evening primiose family)						
**Gaura parviflora Hook, Velvet-leaf gaura HABITAT: weedy or cultivated situations	Statewide, but rare in northeastern Texas	Washington, Montana, and Indiana to Arizona and Louisiana, and Texas	Соптол	Low as food for quail	Aesthetic	None
**Gaura <u>filiformis</u> Small Gaura HABITAT: open woods and fields	Eastern and south- central Texas, rare in north-central Texas	Texas to southern Missouri, western Tennessee and western Alabama, to Nebraska, Iowa, southern Wisconsin, southern Minnesota, New England, and Maryland	Uncommon	Low as food for quail	ИА	Slightly adverse
G <u>aura Lindheimeri</u> Engelm, and Gray Gaura HABITAT: black-soil prairies	South-central and southeastern Texas	Texas and southern Louisiana, videly cultured and occasionally established elsewhere	Соптол	Low as food for quail	Aesthetic	None
Gaura sinuata Sér. Wavy-leaved gaura HABITAT: open sandy or often disturbed places	Statewide, except high plains and Trans-Pecos	Texas, Cklahoma, widely introduced elsewhere	Common	Low as food for quail	Aesthetic	None
**Gaura suffulta Gray Roadside gaura HABITAT: open sandy often weedy situations	Statevide	South-central Lnited States	Conmon	Lov as food for quail	Aesthetic	None
**Oenothera speciosa Hutt. Showy primmose HABITAT: prairies and open woodlands	Statewide, but rare and scattered to the north and west	Texas, Kansas, and Missouri to north- eastern Mexico	Соптол	Low as food, eaten by common goldfinch	Aesthetic; ornamental; scientific, genetic research	None
Oenothera Spachiana T. % G. Evening primrose HABITAT: open sandy prairies and low ground	Eastern Texas	Texas to western Louisiana, Arkansas, and southeastern Oklahoma	iiA	Low as food, eaten by common goldfinch	Aesthetic; ornamental; scientific, genetic research	None
**Oenothera heterophylla Spach Evening primrose HABITAT: sandy open woods, colonial	Eastern and north- central Texas	Texas, western Louisiana	Coranon	Low as food, eaten by common goldfinch	Aesthetic; ornamental; scientific, genetic research	None

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Species	state Kange	United States Mange	nn Region	Wildlite Habitat	Other Values	Project impact
**Oenothera laciniata Hill Cut-leaved evening primrose HABITAT: sandy fields and waste places	Statewide, except south plains, rare in western Texas and Panhandle	Eastern United States, south to Ecuador	Common	Low as food, eaten by common goldfinch	Aesthetic; scientific, genetic research	None
**Stenosiphon linifolius (Nutt.) Heynh. Stenosiphon HABITAT: rocky banks and slopes, usually on limestone, colonial	Edwards Plateau, north through north- central Texas, and Panhandle	Texas, north to southern Nebraska and western Arkansas	нА	ИА	Aesthetic	None
**Ludwigia decurrens Walt. Primrose-willow HABITAT: swamps and wet places	Eastern Texas	Southeastern United States to eastern Texas	Uncommon	Moderate food value	AN	Slightly beneficial
Ludwigia octovalvis (Jacq.) Raven Seedbox HABITAT: swamps and other wet places	Widespread through southern half of Texas	Warmer regions of the world	Common	Moderate food value	δN	None
**Ludwigia leptocarpa (Hutt.) Hara Water-primrose HABBITAT: wet places, as along ditches	Eastern Texas	Texas, east to Missouri, Georgia, ncrthern Florida	tiA	<i>V</i> oderate food value	Aesthetic	None
**Ludwigia peploides (H.B.K.) Raven Seedbox HABITAT: ponds and streams	East-central and eastern fexas, locally west to the Trans-Pecos	Throughout warmer portions of New World	Locally common	High as food, seeds and foliage valuable food for upland gamebirds and mammals	Aesthetic	Slightly benefici.l
**Ludwigia uruguayensis (Camb.) Hara Uruguay water-primrose HABITAT: wet places, as along ponds and ditches	Scattered in southeastern Texas	Southeastern United States, and scattered south to northern Argentina	Uncommon	Moderate food value	Aesthetic	Slightly beneficial
**Ludwigia alternifolia L. Rattle-box HABITAT: occasional along ditches and in wet places	Eastern Texas	Massachusetts and Ontario to northern Florida, eastern Texas, and Iowa	Unconmon	High as food, seeds and foliage valuable food for upland gamebirds and mammals	Aesthetic, soil builder	None
**Ludwigia glandulosa Halt. Cylindric-fruited ludwigia HABITAT: wet places, as along ditches and in swarps	Eastern Texas	Texas; north and east to southern Illinois, Virginia and northern Florica	VII	High as food, seeds and foliage valuable food for uplanc carehirds and marmals	Aesthetic	Slightly beneficial

Crocier	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Ludwigia palustris (L.) Ell. Marsh purslan: HABITAT: wet places as about ponds and along rivers	Eastern and south- central Texas to the Llano area and in Davis Mountains	Temperate North America, except Rocky Mountains area to Colorado	Cortion	Moderate food value	Aesthetic	Moderately beneficial
**Myriophyllum brasiliense Camb. Water-feather WABITAT: ponds, ditches, streams, and on seepage	Edwards Plateau and in eastern Texas	Escape from cultivation and persistent in southern United States, native to South America	Cormon	Seeds and plants low value waterfoul food	Aesthetic	Moderately beneficial
**Myriophyllum verticillatum L Water-milfoil FABITAT. Lakes	Northeastern Texas	From Newfoundland to British Columbia, south to Utah and northeastern Texas	d1;	Low value waterfowl food	NA N	Very beneficial
**!'yriopkyllum pinnatum (Walt.) Green parrot's-feather HABITAT: swamp forests, on muddy shores or in shallow waters ARALIACERE (dinseno family)	Eastern and south- eastern Texas	Florida to Texas; north to southern Rew England, West Virginia, Kentucky, Illinois, and Iowa	ИА	Lov as food, follage and seeds eaten by waterfowl and marshbirds	AN A	Very beneficial
**Aralia spinosa L. Devil's-walking-stick HARITAT: woodlands, mostly along strears	Fastern Texas	Florida to Texas; north to New Jersey, Pennsylvania, western New York, Chio, Indiana, southern Illinois, and Iowa	4 4	Low food value	Aesthetic, Fistorical value	tone
LIMBELLIFERAE (parsley family) Zizia aurea (L.) Koch Golden Alexanders HABITAT: sandy woodlands and sandy—clay floodplains	Eastern third of Texas	Eastern Canada, south to Florida, west to Saskatchewan, Montana, and Texas	ня	NA	Aestnetic	None
Taenidia integerrima (L.) Drude Yellow pimpernel HABITAT: rocky open woods, lowland woods and on bluffs	Eastern Texas	Eastern Canada; south to Georgia; west to Minnesota, Kansas, Arkansas, and Texas	H.A.	нд	Aesthetic	None
Cicuta mexicana Coult, and Rose Water-hemlock HABITAT: swamps and other wet places	Eastern third of Texas	From middle Atlantic United States, south to Mexico	NA	Low value duck food	Poisonous	None

		United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Species	State Kange	מון נפת ממים מים מים מים מים מים מים מים מים מי	911	low value duck	Aesthetic,	None
Cicuta maculata L. Spotted cowbane	East-central and northern Texas	inroughout eastern United States	<u> </u>	food	poisonous	
HABITAT: along streams, in marshes and other wet places			:	Š	, to 00 00 00 00 00 00 00 00 00 00 00 00 00	Q C N
**Ptilimnium capillaceum (Michx.) Raf.	Eastern half of Texas	Southeastern United States	КA	NA	Aeschecic	NO DE
Mock bisnop's-weed HABITAT: wet places				,	4	ou on
Ptilimnium costatum (Ell.) Raf. Mock bishop's-weed HABITAT: swamps and other	Eastern half of Texas	North Carolina to Georgia, west to Missouri and Texas	NA	¥.	Aes the tic	
wet places Ptilimnium Muttallii (DC.) Britt. Mock bishop's-weed HABITAT: moist sandy soil, in prairies and other moist	Eastern half of Texas	Illinois, south to Louisiana and west to Kansas and Texas	IIA	HA H	Aesthetic	None
places						
**Cynosciadium digitatum DC. Finger dogshade HARITAT: wet places	Coastal and black- land prairies	Texas, north to southern Missouri and eastern Louisiana	NA	V.	Aestnetic	Silghtly beneficial
**Limnosciadium pinnatum (DC.) Math. and Const. Limnosciadium	Eastern half of Texas	Texas and Louisiana, north to Illinois and Kansas	ФN	Ą	Aesthetic	Slightly beneficial
HABITAT: wet places			•	4	Assthatic	01:044]
**Apium <u>leptophyllum</u> (Pers.) F. v. Muell Slimlobe celery HARITAT: moist or wet soil	Coastal and blackland prairies, and the Rio Grande plains	Southern United States	Common	I.A	200	Singnely beneficial
**Chaerophyllum Tainturieri Hook. Chervil HABITAT: prairies, woodlands,	Widespread, but chiefly in eastern half of Texas	From Virginia; south to Florida; west to Kansas, Missouri,	Common	HA.	Aesthetic	Slightly beneficial
and alluvial thickets		ובצמס, מווח או ובסוומ	;	C	Ascthotic	
**Trepocarpus <u>Aethusae</u> Nutt. Trepocarpus HABITAT: river bottoms	Timber belt, and blackland and coastal prairies	From Texas, north to Arkansas, and eası to South Carolina	AN T	¥.	ייייי פייייייייייייייייייייייייייייייי	Silgneiy beneficial
Ammoselinum Butleri (Wats.) Coult. and Rose Sand-parsley HABITAT: bottomlands and moist woodlands	Timber belt, and blackland and coastal prairies	Texas, Oklahoma, and Arkansas	ИА	нА	Aesthetic	None

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Species	State Range	United States Range	in Region	Wildilte Habitat	Orner values	יו כו פר ביישומר ב
**Spermolepis inermis (DC.) Math. and Const. Scale-seed IdBITAT: sandy or gravelly	Southern half of Texas	Eastern half United States	Common	nA	Aesthetic	None
**Torilis nodosa (L.) Gaertn. Knotted hedge-parsley HARITAT: moist places	Timber belt, and blackland and coastal	Introduced widely in United States, native of Old World	Соптоп	NA	Aesthetic	None
**Torilis arvensis (Huds.) Link Hedge-parsley HABITAT: NA	Blackland prairies, Edwards Plateau	Adventive, native of Old World	Convion	NA NA	па	None
**Daucus pusillus Michx. Rattlesnake-weed HABITAT: disturbed soil	Statewide, especially in eastern portion	Across southern United States, north to British Columbia	Convinon	Low food value	Aesthetic	None
Cxypolis filiformis (Walt.) Britt. Water-dropwort HABITAT: wet places	Timber belt, and blackland and coastal prairies	From Virginia, south to Florida and west to Texas	ii.A	чк	Aesthetic	None
Oxypolis rigidior (L.) Raf. Cowbane HABITAT: along streams and in other wet places	Timber belt, and blackland and coastal prairies	From New York, south to South Carolina, west to Minnesota and Texas	411	IIA	Aesthetic	None
**Polytaenia Nuttallii DC. Prairie-parsley hAGITAT: sandy soil	Timber belt, and blackland prairies	Texas and Louisiana, north to Kentucky, Michigan, and Iowa	A:	W.	Aesthetic	None
Polytaenia texana (Coult, and Rose) Math, and Const, Texas-parsley HABITAT: prairies	Blackland and coastal prairies, Edwards Plateau	Endemic to Texas	Abundant	на	Aesthetic	None
**Saricula <u>canadensis</u> L. Black snakeroot Habitat: moist woods	Eastern and central Texas	Vermont, south to Florida, west to South Dakota and Texas	Conwinen	18A .	Aesthetic	Slightly adverse
Eryngium yuccifolium Michx. Button snake-root HABITAT: open prairies	Timber belt, and blackland and coastal prairies	Connecticut; south to Florida; west to Minnesota, Kansas, and Texas	81A	ия	Aesthetic	None
**Eryngium Hookeri Walp. Eryngo HABITAT: moist limy soil	Blackland and coastal prairies	Texas and Louisiana	пA	NA	Aesthetic	None

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			Abundance	Use for	Other Values Pr	Preject Impact
00,000	State Range	United States Range	in Region	201000 2110118		Moderately
**Eryngium integrifolium Walt. Eryngo HABITAT: moist woods and	Timber belt and blackland and coastal prairies	North Carolina, south to Florida and west to Texas and Oklahoma	ИA	V)	Aestaetic	adverse
bogs Eryngium prostratum DC. Eryngo HABITAT: moist soil	Timber belt, and blackland and coastal prairies	South Carolina; south to Florida and west to Kentucky, Missouri, and Texas	NA	ия	Aesthetic	None
Centella asiatica (L.) Urban Centella HABITAT: edges of streams	Eastern half of Texas	Delaware, south to Florida and west to Texas	IIA	иА	Aesthetic	None
and other wet places **Hydrocotyle umbellata L. Water-pennywort HABITAT: wet places	Eastern half of Texas	Nova Scotia; south to Florida; west to Minnesota and Texas; also Oregon, and California	HA H	AM	Aesthetic	Slightly beneficial
**Hydrocotyle verticillata Thumb, Water-pennywort HABITAT: wet places	Timber belt, and blackland and coastal prairies, Edwards Plateau	"assachusetts, south to Florida, west to Hissouri, Texas, southern Utah, New Nexico, Arizona, and	IIA	N N	Aes thetic	Sildneig beneficial
Hydrocotyle bonariensis Lar. Sombrerillo HABITAT: wet places	Coastal and blackland prairies, and on the Gulf side of the Rio		HA	An An	Aesthetic	None
Hydrocotyle ranunculoides L.f Water-pennywort HABITAT: wet places	Grande piains Timber belt and blackland prairies	Southeastern United States, Washington south along the	NA	d X	Aesthetic	None
**Bowlesia incana R. 8 P. Bowlesia HABITAT: moist thickets, lawns	Southeastern half of Texas	Florida to California	NA	NA	Aesthetic	None
CORNACEAE (dogwood family) ****Lassa aguatica t. Tipelo nablifit: inundated swamps and clong sluggish streams	Eastern Texas	Virginia, southern Indiana, southern Illinois, and Missouri; south to Fiorida and Texas	Localiy abundant	High for food for wildlife-including squirrel, flowers valuable as food for trir, buts eaten by birds and carrals	Fruit edible, low commercial value	Moderately beneficial

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Nyssa sylvatica Marsh. Black-gum HABITAT: swamps, low woods, and sandy open woodlands	Eastern Texas	Maine; south to Missouri, Florida, and Texas	Locally abundant	High as food, foliage eaten by deer, squirrel, flowers valuable food for bees, buds and fruit eaten by birds and mammals	Fruit edible, moderate commercial value	Moderately adverse
**Cornus florida L. Flowering dogwood HABITAT: woodlands	Eastern and central Texas	Eastern half of United States, south to Florida and Texas	Locallv abundant	High as food, fruit and buds eaten by birds and mammals, browse for deer; cover	Aesthetic	Moderately adverse
**Cornus racemosa Lam. Dogwood HABITAT: moist or wet soil on seepage slopes, in thickets and on stream banks in open woodlands	Eastern Texas	Maine to Manitoba, south to Florida and Texas	Locally abundant	High as food, fruit and buds eaten by birds and mammals, browse for deer	Ornamental	Moderately adverse
**Cornus Orummondii C.A. Mey. Rough-leaf dogwood HABITAT: damp wocdlands and thickets, occasionally on dry hills	Eastern half of Texas	Eastern Virginia, southern Indiana and southeastern Missouri; south to Florida and Texas	Corrsion	Figh as fooc, fruit and buds eaten by turkeys, bobwhites, squirrels; all of plant eaten by deer	Aesthetic, ornamental, wood of commercial	Moderately adverse
Cornus foemina Mill. English dogwood HABITAT: swamps and low	Eastern Texas	Indiana and Virginia, south to Florida, Louisiana, and Texas	Scattered stands	High as food, fruit and buds eaten by birds and mammals, browse for deer	Ornanental	None
CLETHRACEAE (white alder family) Clethra alnifolia L. Sweet pepper-bush HABITAT: swamps, about lakes and in wet woods and thickets	Southeastern Texas	Maine, south to Florida and Texas	Cormon	IIA	TA TA	None
**Yaccinium arboreum Marsh. **Yaccinium arboreum Marsh. **Farkleberry **IMBINAT: yandy soils in pinel ands, open mixed forests, thickets,arings, fields, andastal scrut-forests	Eastern and south central Texas	Southeastern United States	Cormon	Moderate as food for wildlife including squirrel, deer, turkey	IIA	Moderately adverse

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Species	State Range	United States Range	Abundance in Region	Vildlife Habitat	Other Values	Project Impact
Vaccinium caesium Greene Vacc:nium HABITAT: savannahs and open pine-hardwood forests	Eastern Texas	Florida to Texas, north to West Virginia and Pennsylvania	Rare	Moderate as food for wildlife including squirrel, deer, turkey	NA	None
Vaccinium Elliottii Chapm. Elliott's Blueberry HABITAT: open flatwoods and ravines, rarely in swampy areas and occasionally in cleared river bottoms	Eastern Texas	Southeastern Virginia, south to Florida, west to Texas and Arkansas	Uncommon	Moderate as food for wildlife including squirrel, deer, turkey	V2	None
Vaccinium arkansanum Ashe Vaccinium HABITAT: sandy lake or stream margins or in swamps, occasionally in bogs or open flatwoods	Eastern and southeastern Texas	Northern Florida, west to Texas and Arkansas	Соглтоп	Noderate as food for wildlife including squirrel, deer, turkey	NA NA	None
Rhododendron Coryi Shinners Azalea HABITAT: bogs and low woodlands along streams	Southeastern Texas	Annarently endemic to Texas	AA.	Low food value, good cover	Aesthetic	None
Ehododendron canescens (Michx.) Sweet Hoary azalea HABITAT: sandy or light soils in and on the edge of bogs, in seepage areas, along wooded streams, in pine-hardwood flats	Eastern Texas	Florida to Texas; north to Delaware, Maryland, and Ohio	¥	Low food value, good cover	Aesthetic	None
Rhododendron prinophyllum (Small) Hillais Early-azalea HABITAT: sandy or light soils usually in moist or wet situations in swamps, along wooded streams and in bog areas	Southeastern Texas	Maine to Quebec; south and south- west to Tennessee, Missouri, and Texas	V:	Low food value, good cover	Aesthetic	None
Leucothoe racemosa (L.) Gray Fetter-bush MABITAT: moist thickets, swamp forests and sunny lake shores	Southeastern Texas	Texas to Florida; north to Massachusetts, southeastern New York, and eastern Pennsylvania	NA	Low as food, browsed by deer	НА	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Lyonia ligustrina (L.) DC. He-huckleberry HABITAT: in bog and seepage areas, along wooded streams	Eastern Texas	Southeastern United States	Согтоп	ИА	IIA	None
Lyonia mariana (L.) D. Don Stagger bush HABITAT: peaty or sandy pinelands and edge of evergreen shrub bogs, usually in moist soils	Eastern and south- central Texas	Florida to Texas; north to southern New England, southeastern New York, eastern Pennsylvania, Arkansas Tennessee, Missouri	Common	Foliage considered poisonous to young grazing animals	VII.	None
Monotropa uniflora L. Indian-pipe HABITAT: humus of moist pine-hardwoods	Eastern Texas	Entire United States	On Texas rare and endangered plant list	None	High aesthetic, scientific	None
**Samolus parviflorus Raf. Brookweed HABITAT: wet soils and about various types of wet rocks, along streams, about lakes and seepage areas	Statewide	From Florida to California and Mexico; north to eastern Canada, Michigan, Illinois, and Pritish Columbia	Согтол	NA	Aesthetic	Moderately beneficial
Dodecatheon Meadia L. Shooting-star HABITAT open slopes, base of bluffs, in cedar brakes, open moist woods	Eastern third of Texas	From District of Columbia, west to Visconsin, south to Seorgia and Texas	On Texas rare and endangered plant list	None	High aesthetic, scientific	None
Lysimachia lanceolata Walt. Loosestrife !!ABITAT: dry or moist open woods, thickets, in or about water of lakes, seepage and streams	Eastern Texas	Florida to Texas; north to Ohio, Pennsylvania; west to Michigan and Wisconsin	И псолтоп	Low food value	NA	None
**Anagallis arvensis L. Scarlet pimpernel HABITAT: moist places in prairies and flatlands	Eastern and southern Texas	NA, introduced, native to Europe	Uncommon	ИА	Aesthetic	None
Centunculus minimus L. Chaffweed HABIAT: damp sand and mud in Sepressions, bogs, grasslands arlopen woods, nearly cosmopolitan	Eastern and southern Texas	Nearly throughout United States	Соптоп	ИА	Aesthetic	Mone

			Abundanco	Use for		
Charias	State Range	United States Range	in Region	Wildlife Habitat	Uther Values	Project Impace
Limonium Hashii Small Sea-lavender HABITAT: beaches, salt flats and marsh borders, in grasslands, and in loose sand	Gulf coast	Mostly from South Carolina, south to Florida and west to Texas and northeastern Hexico; rare north of South Carolina	Uncompon	W.	High aesthetic	None
SAPOTACEAE (sapodilla family) **Bumelia lanuginosa (Michx.) Pers. Gum bumelia HABITAT: various habitats, mostly in uplands or sometimes in bottomlands	Several varieties found statewide	Florida to Missouri and Kansas: south to Texas, southern Arizona, and northern Mexico	Соптоп	High as food for wildlife including deer, squirrel; cover	Ornamental, historical value	Moderately adverse
EBENACEAE (persimmon or ebony family) **Diospyros virginiana L. Common persimmon HABITAT: dryish woods, old fields and clearings	Eastern Texas, extending west to the rolling plains	Florida to Texas: north to Hew England, Hew York, West Virginia, Ohio, Pennsylvania, Iowa, Indiana, Illinois,	Common	High as food for variety of wildlife including deer, squirrel, turkey; cover	Fruit edible, ornamental, historical value	Slightly adverse
STYRACACEAE (storax family) **Halesia carolina L. \(\text{f. bossum-wood}\) HAB!TAT: rich woods and	Eastern Texas	Southeastern United States	Locallv abundant	iiA	41 4	Moderately adverse
along stream banks **!!alesia diptera Ellis Snowdrop-tree !!ABITAT: woods and along	Eastern Texas	Northern Florida, north to South Carolina, west to Texas and Arkansas	Locally abundant	เห	Y2	Moderatel.v adverse
streams **Styrax americana Lam. Mock-orange NABITAT: moist woods and along streams	Eastern Texas	Florida; west to Texas; morth to southeastern Virginia, southern Indiana, southeastern Missouri, Arkansas, and Oklahoma	Locally abundant.	ti A	Aesthetic	Moderately adverse

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Species	State Range	Unite: States Range	Abundance in Region	Use for Wildlife Pabitat	Other Values	Project Impact
<pre>SYMPLOCACEAE (sweet-leaf family) **Symplocos tinctoria (L.) L'Her. Sweet-leaf HABITAT: woods, swamps, bottomlands</pre>	Eastern Texas	Florida to Texas and Arkansas, north to Delaware	Conran	High as food, leaves relished by browsing animals	Aesthetic	Modorate ¹ y adverse
OLEACEAE (olive family) **Fraxinus caroliniana Mill. Carolina ash HABITAT: swamps, and along	Southeastern Texas	Virginia to Florida, West to Arkansas and Taxas	Centron	High for food and cover	Lurber	Moderately adverse
**Fraxinus pensylvanica Marsh. Red ash HABITAT: rivers and streams, in alluvial woods and swamps, and in depressions in savannahs	Eastern half of Texas	Eastern half United States	Uncomion	High es food for squirrel	Arramental	Slightly adverse
**Fraxinus americana L. White ash HABITAT: streams and in forests	Eastern third of Texas	From Abva Scotia to Minnesota, south to Florida and Texas	Corron	High as food, fruit eaten by birds, foliage eaten by marmals	Ornamental, lumber, historical value	Moderately adverse
**Chionanthus virginica L. Fringe-tree HABITAT: damp woods, thickets, or on bluffs	Eastern Texas	Tlorida to Texas; north to Hew Jersey, eastern Pennsylvania, West Virginia, southern Ohio, southern Hissouri,	Locally comon	High as food for wildlife including deer, squirrel; cover	Aest'etic	Moderately adverse
**Ligustrum Quihoui Carr. Wax-leaf Tigustrum HABITAT: cultivated, woodlands	Eastern and north- central Texas	Maturalized in parts of United States, native of China	Contaion	High as cover, low food value	Ornanental	None
**Ligustrum sinense Lour. Privet HABITAT: Fencerows, in thickets, and about old home sites	Introduced widely	Widely introduced in parts of United States. native of China	Contraors	High as cover, low food value	Ornamenta l	None
**Forestiera acuminata (Michx.) Poir. Swamp privet HABITAT: lcwland woods	Eastern, south- eastern, and north- central Texas	Southeastern United States; north to South Carolina, Tennessee, Indiana, Illinois, west to	Uncom าคา	Moderate as food, fruit eaten by gamebirds including quail	ИА	Slightly adverse

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Charles	State Lanue	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Forestiera ligustrina (Michx.) Poir. Forestiera HABITAT: woods, sandy soils	Easterr and southeastern Texas	Alabama, Georgia, Florida, Tennessee, and Texas	Uncommon	High as food for quail, moderate as cover	¥2	Moderse adverse
Colsemium sempervirens (L.) Gelsemium sempervirens (L.) Jaume StHfl Carolina-jessamine HABITAT: sandy loam on edge or in open woodlands	Eastern Texas	Florida to Texas, north to southeastern Virginia and Arkansas	Uncommon	Moderate food, browsed by deer	Aesthetic	None
Spigelia marilandica L. Indian-pink HABITAT: rich wooded slopes	Eastern Texas	Florida to Texas; north to Maryland, Ohio, Indiana, Missouri, and Gklahoma	Uncormon	NA N	Aesthetic	None
**Spigelia texana (T. & G.) A. DC. Texas pink-root HABITAT: wooded slopes and floodplain woods along rivers	Southern Texas	Endemic to Texas	Uncommon	\$.	Aesthetic	Slightly adverse
Cynoctonum Hitreola (L.) Britt. Alterwort HABITAT: moist soil in seepage, along ditches and streams, and about ponds and lakes	Eastern and central Texas	Florida to Texas: north to south- eastern Virginia, Tennessee, and Arkansas	Uncorron	Moderate food, eaten by quail	Aesthetic	None
Cynoctonum sessilifolium (Walt.) J. F. Gmel. Miterwort MABITAT: seepage slopes and in bogs and wet savannahs, along wooded streams	Eastern Texas	Florida to Texas, north to southeastern Virginia	NA N	Moderate food, eaten by quail	Aesthetic	None
**Polypremum procumbens L. Juniper leaf Juniper leaf HABITAT: dry sandy fields, on dunes, along roadsides, and in openings in flatwoods	Eastern two.thirds of Texas	Florida to Texas, north to Long Island, New Jersey, eastern Pennsylvania and southeastern Missouri	Соптоп	NA	Aesthetic	None
Sabatia dodecandra (L.) B.S.P. Sabatia dodecandra (L.) B.S.P. Sarge marsh-pink HABITAT: depressions in open words, about ponds, stream regins, and in ditches	Southeastern Texas	South Carolina to Texas	Ä	νı	Aesthetic	Моне

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Sabatia campestris Nutt. Rose-gentian HABITAT: moist or dry soil in fields, prairies, cedar-oak flats, and along streams	Eastern half of Texas, and southwest along coast	Illinois and Kansas, south to Texas and Mississippi	NA	NA	Aesthetic	Moderately adverse
Sabatia calycina (Lam.) Heller Rose-gentian HABITAT: ditches and shaded river swamps and bottoms	Southeastern Texas	Southeastern Virginia, south to Florida and Texas	NA	NA	Aesthetic	Unknown
Gentiana Saponaria L. Bottle-gentian HABITAT: moist woods, thickets, and sandy swamps	Southeastern Texas	Georgia to eastern Texas; north to New York, West Virginia, Indiana, Wisconsin, and Minnesota	NA	NA	Aesthetic	Unknown
Bartonia paniculata (Michx.) Muhl. Screw-stem HABITAT: sandy bogs and meadows	Eastern Texas	Mostly along the coast from Hova Scotia and New Jersey; south to Florida, Oklahoma, and Texas	NA	МА	NA	Unknown
Bartonia texana Correll Screw-stem HABITAT: sphagnum moss along wooded stream	Tyler County, southeastern Texas	Endemic to Texas	Ä		A	Unknown
Obolaria virginica L. Pennywort HABITAT: humus of low moist hardwoods	Eastern Texas	Southeastern United States	NA	иА	Aesthetic	Unknown
Nymphoides aquatica (Gmel.) 0, Ktze. Yellow floating-heart HABITAT: In ponds and sluggish streams	Eastern Texas	From Florida and Texas, north locally to southern New Jersey and Delaware	Locally common	NA	Aesthetic	None
APOCYNACEAE (dogbane family) Amsonia repens Shinners Ulue-star HABITAT: on prairies and along railroad tracks	Eastern Texas	Endemic to Texas	hА	NA	Aesthetic	None

20,000	State Rance	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Amsonia illustris Woods **Amsonia illustris Woods Blue-star HABITAT: wet soil of swamps, madows, low woodlands, in streams and ditches	Eastern third of Texas	South Missouri and eastern Kansas to Texas	NA	None known	Aesthetic	Unknown
**Trachelospermum difforme (Walt.) Gray Climbing dogbane the edge of forests, and in weedy areas	Eastern Texas	From Delaware; south to Florida and Texas; west to Illinois, Indiana, Missouri, and Oklahoma	Соптоп	NA	Aesthetic	Slightly adverse
Vinca major L. Periwinkle HABITAT: sandy soil along streams, on edge of woods, and in open woodlands	Eastern and central Texas	Introduced, native of Eurasia	Conmon	МА	Aesthetic	None
**Apocynum cannabinum L. Indian hemp Indian hemp iABITAT: wet or moist sandy or clayey soil in ditches and along streams and rivers, occasionally in fields and open woodlands	Eastern, central, and north-central Texas	Throughout the United States	Совтоп	NA THE	Aesthetic	None
**Asclepias viridi: Walt. Antelope-horn HABITAT: glades, prairies, barrens	Eastern half of Texas	From Tennessee to Florida, wes to Webraska and Texas	VII	Low food value	Aesthetic	None
Asclepias amplexicaulis Sm. Hilkweed HABITAT: open woods, prairies, old dunes, clearings, meadows, pastures, roadsides and railways, sandy or gravelly soil	Eastern third of Texas	New Hampshire, south to Florida, west to Nebraska and Texas	Common	Low food value	Aesthetic	None
**Asclepias obovata Ell. Milkweed HABITAT: sandy oak and pine woods, savannahs, fields, roadsides	Southeastern Texas	South Carolina to Florida and west to Texas	Соппон	Low food value	Aesthetic	None

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Species	State RAnge	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Asclepias tuberosa L. Butterfly-weed HABITAT: variety of habitats, prairies, dry fields, open woods	Fastern two-thirds of Texas	Eastern half United States	Соптоп	Low food value	Aesthetic	None
**Asclepias <u>viridiflora</u> Raf. Milkweed HABITAT: glades, prafries, plains and rocky or sandy hillsides, old fields	Statewide	Eastern two-thirds United States	Uncommon	Low food value	Aesthetic	None
Asclepias variegata L. White-flowered milkweed HABITAT: thickets and open woods, sandy or rocky soil	Eastern Toxas	Connecticut, south to northern Florida, southern Missouri, and Texas	IIA A	Low food value	Aesthetic	None
**Asclepias <u>rubra</u> L. Milkweed HABITAT: bngs, marshes, wet meadows, low pine barrens	Eastern Texas	New Jersey; south to Georgia, Alabama, Louisiana, and Texas	им	Low food value	Aesthetic	None
Asclepias verticillata L. Milkweed HABITAT: prairies, thickets, open woods, in rather dry soil, dunes, roadsides, and fence corners	Eastern half of Texas	Eastern Canada, south to Florida, west to North Dakota and Texas	Corgron	Low food value	Aesthetic	None
Asclepias <u>longifolia</u> Michx. Milkweed HABITAT: flatwoods, swamps, savannahs, low pinelands	Eastern Texas	Delaware to Florida, and west to Texas	Cormon	Low food value	Aesthetic	None
**Asclepias perennis Walt. MITkweed HABITAT: low swampy ground, frequently with bald cypress, alluvial woods, sloughs, and ditches	Southeastern Texas	South Carolina; south to Florida, and west to Texas, southern Missouri, Illinois, and south- western Indiana	Соптол	Low food value	Aesthetic	None
Cynanchum angustifolium Pers. Cynanchum HABITAT: in and on the edge of salt marshes and in moist sandy soils	Gulf coast	North Carolina to Florida and Texas	Locally common	Low food value	Aesthetic	None
Matelea cynanchoides (Engelm.) Moods. Matelea HABITAF: sandy soil, mostly in open woodlands	Northeastern Texas, south to the Gulf coast, west to the south plains	Oklahoma and Texas	HA	NA	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Matelea gonocarpa (Walt.) Shinners Milkvine HABITAT: high-climbing on trees and shrubs, mostly along wooded streams and in thickets	Eastern half of Texas	Southeastern Virginia to southern Missouri, south to Florida and Texas	Common	NA .	ИА	None
Matelea decipiens (Alex.) Woods Matelea HABITAT: sandy soils in open woodlands	Eastern Texas	South Carolina to Louisiana, Texas, Oklahoma, and Missouri	NA	NA	Aesthetic	None
CONVOLVULACEAE (morning glory family)	~					
**Dichondra carolinensis Michx. Pony-foot HABITAT: damp open ground, roadsides and lawns	Central and eastern Texas	Eastern and northern Florida and Virginia and Texas	Соптоп	RA	Aesthetic	None
Stylisma humistrata (Halt.) Chapm. Stylisma HABITAT: sandy soil in usually dry open woods	Eastern Texas	Florida, west to Arkansas and Texas, north to Virginia	Соятол	H:A	Aesthetic	None
Stylisma Pickeringii (Torr.) Gray Stylisma HABITAT: sandy open ground	Eastern and central Texas	Texas to Kansas, Iowa, Cormon Illinois, and Louisiana	Common	NA	Aesthetic	None
Convolvulus equitans Benth. Convolvulus HABITAT: prairies or disturbed ground, especially in rocky or sandy soil	Statewide, except eastern timber telt	Texas to Kansas, Colorado, Arizona, and Mexico	Соптоп	NA	Aesthetic	None
Jaquemontia tamnifolia (L.) Griseb. Jaquemontia HABITAT: roadsides, stream beds, cultivated or disturbed ground	Eastern Texas	Southeastern United States	Соликоп	ИА	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Wildlife Habitat	Other Values	Project Inpact
lpomoea hederifolia L. Norning glory HABITAT: damp thickets, cultivated inland	Near the coast, Orange County to Matagorda County,	Florida to Texas		Low as food for gamebirds	Ornamental	None
Ipomoea hederacea Jacq. Morning glory HABITAT: gravel bars, stream beds, fields, and disturbed ground, cultivated	Eastern Texas, west to cross timbers, south to Rio Grande, locally up river to Big Bend	Southeastern United States	Colmion	Low as food, seeds eaten	Aesthetic	None
**!pomoea purpurea (L.) Roth Morning glory HABITAT: cultivated, escaped in waste places and disturbed ground, stream banks	Statewide, scattered	Southeastern and southwestern United States	Common	Low as food, seeds eaten by quail, roots by small rodents	Aesthetic	None
<pre>ipomoea Pes-caprae (L.) Soilbind morning glory HABITAT: beaches and dunes, banks of bayous</pre>	Gulf coast	Warm regions	Connion	Low as food, seeds eaten	Aesthetic, ground cover, soil binder	None
**Ipomoea pandurata (L.) Mey. Wild potato HABITAT: thickets, fields, and roadsides	Eastern Texas, west to 3exas, Blanco, and Johnson Counties	Southeastern United States	Common	Lov as food	Aesthetic, root edible	None
Ipomoea sagittata Pcir. Arrow-Teaf morning glory HABITAT: beaches and dunes,	Gulf coast	Texas to Florida	Солипол	Low as food, seeds eaten	Aesthetic, ornamental	None
**Ipomoea trichocarpa Ell. Morning glory HABITAT: thickets, fields, roadsides, and disturbed ground	Eastern half of Texas	Southeastern United States	Соглаоп	Low as food, seeds eaten by quail, roots by small mammals	Aesthetic	None
**Ipomoea lacunosa L. Morning glory HABITAT: damp thickets, stream banks, and ditches	Eastern Texas, west and south to Tarrant, Travis, and Matagorda Counties	Southeastern United States	Conmon	Low as food, seeds eaten by quail, roots by small rodents	Aesthetic	Slightly beneficial
Cuscuta glabrior (Engelm.) Yunck. Dodder HABITAT: parasitic on a variety of mostly herbaceous hosts	Statewide	Texas, New Mexico, Oklahoma, and Louisiana	Common	Low as food, seeds eaten	Parasitic on crop plants	None

Species	Ctato Dango	Instead Center of Daniel	Abundance	Use for		
Cuscuta indecora Choisy Pretty dodder HABITAT: parasitic on a wide range of herbaceous and woody hosts	Statewide	Southern states from Florida to California, north through the central states to Minnesota, Michigan, and South Dakota	Acundant	Low as food, seeds	Parasitic on crop plants	None None
**Cuscuta compacta Juss. Dodder HABITAT: parasitic on a wide range of herbaceous and woody hosts	Statewide	New England to Florida; west to Missouri, Arkansas, and Texas	Соптол	Low as food, seeds eaten	Parasitic on crop plants	None
POLEMONIACEAE (phlox family) <u>ipomopsis rubra</u> (L.) Wherry Texas plume HABITAT: in sun or partial shade in dry sandy or rocky ground	Central and eastern Texas	Texas, east to Florida, north to North Carolina	Соптоп	Low as food, seeds eaten	Ornamental, aesthetic	None
Phlox oklahomensis Wherry Phlox HABITAT: sandy woods	Northeastern Dallas County	Southern Kansas to northwestern Oklahoma and south to Texas	On Texas rare and erdangered plant list	None	High aesthetic, scientific	None
**Phlox pilosa L. Phlox HABITAT: various habitats	Eastern to southwestern Texas	Eastern half United States	Соптоп	Nectar for hummingbirds and bees	Aesthetic	None
**Phlox Drummondii Hook. Drummond phlox HABITAT: acid sandy soils	Eastern Texas, rare westward and northwestern	Some varieties endemic to Texas, other varieties have escaped throughout United States	Соптор	Nectar for hummingbirds and bees	Aesthetic	None
Phylox glabriflora (Brand) Whiteh. Rio Grande phlox WABITAT: along Gulf coast	Gulf coast and lower Rio Grande valley, extending inland to Atascosa and Duval Counties	Gulf coast	ИĀ	Nectar for hummingbirds and bees	Aesthetic	None
Phlox Phlox HABITAT: acid sandy losm soils in grasslands and open oak woodlands	Over much of eastern Texas, except pinelands	Texas, Oklahoma	Соптоп	Necta: for hummingbirds and becs	Aesthetic	None
HYDROPHYLLACEAE (waterleaf family) **Nemophila phacelioides Nutt Eaby blue-eyes PAEITAT: sandy soil, usually in open woodlands	Eastern and southeastern Texas	From Arkansas and Oklahoma to south- eastern Texas	¥2	None known	Aesthetic	Unknown

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Species	State Range	United States Kange	norgan ar	WINDING HADICAC	20101	2222
**!lemophila microcalyx (Mutt.) Fisch. and Mey. Baby blue-eyes HABITAT: damp woods	Eastern Texas	Florida to Texas; north to Virginia, Tennessee, Arkansas, and Missouri	NA	Hone known	Ae∙thetic	None
**Phacelia hirsuta Nutt. Phacelia HABITAT: sandy soil of borders and openings in deciduous woods	Northeastern Texas	Louisiana to Texas, north to southern Missouri and south- eastern Kansas	liA	VI:	Aesthetic	Unknown
Phacelia congesta Hook. Phacelia HABITAT: sandy, gravelly, or rocky soil	Statewide, except eastern Texas	Texas, New Mexico, and Arizona	Common	нА	Aesthetic	None
Nama jamaicense L. Nama HABITAT: moist places under shrubs and elsewhere	Eastern and southeastern Texas	Texas, east to Florida	NA	tiA	Aesthetic	None
**************************************	Most of Texas	Texas, north to Oklahoma, west to Arizona and California	Соптол	NA	Aesthetic	None
**Hydrolea ovata Chofsy Hydrolea BIABITAT: edges of ponds and streams	Eastern and southeastern Texas	Louisiana to Texas, north to Mississippi and Arkarsas	ПА	Y:	Aesthetic	None
**Hydrolea uniflora Raf. Smooth hydrolea HABITAT: edges and shallow water of ponds and streams	Castern and southeastern Texas	Texas, north to Arkansas, Missouri, and southern Illinois	VI.	ИA	Aesthetic	None
BORAGINACEAE (borage family) Heliotropium curassavicum L. Seaside heliotrope HABITAT: sandy soil along beaches, about ponds, saline flats	Statewide	From Florida; north to Delaware; west to Oklahoma, Texas, and New Mexico	Соптнол	Low as food	Aesthetic	None
**Heliotropium procumbens Mill. Four-spike heliotrope HABITAT: damp situations, or land subject to flooding	North to Jefferson, Hays, Bexar, and Brewster Counties	Mostly on the coastal plainFlorida, Louisiana, and Texas	Соптол	Low as food, seeds eaten by mourning dove	Aesthetic	Slightly adverse

Species	State Range	United States Range	Abundance in Pecion	Use for Wildlife Habitat	Othor Values	Oro ioc+ Impac+
**Heliotropium indicum L. Turnsole HABITAT: along river banks and bottoms, ditches, lake shores, and along creeks	Eastern half of Texas	Widely distributed in warmer parts of America	Соптол	Low as food, seeds eaten by mourning dove	Aesthetic	Moderately beneficial
**Heliotropium tenellum (Nutt.) Torr. India heliotrope HABITAT: rocky or gravelly soils in the open or in cedar-oak woods	Eastern two-thirds of Texas	From Kentucky, Missouri, and Kansas; south to Georgia, Alabama, and Texas	Ψ.	Low as food	Aesthetic	None
Cynoglossum virginianum L. Wild comfrey HABITAT: upland deciduous woods	Eastern Texas	From southern New England, south to Florida and west to eastern Texas	НА	ИА	Aesthetic	None
Hackella virginiana (L.) 1.M. Johnst. Stickseed HABITAT: rich woods and open thickets	Northeastern Texas and the Panhandle	From Quebec and Maine; west to South Dakota; south to Georgia, Alabama, Louisiana, and Texas	On Texas rare and endangered plant list	4 4	High aesthetic, scientific	Yone
***!yosotis macrosperma Engelm. Scorpion-grass HABITAT: rich soil of woods and bottomlands	liortheastern and eastern Texas, southeast to the coast	Maryland to Florida; west to Illinois, Hissouri, and Texas	Cormon	SIA SIA	Aesthetic	None
**Myosotis verna Nutt. Forget-me-not HABITAT: rocky woods, on slopes and banks, in prairies and open woodlands	Northeastern Texas; Dallas to Travis and Harris Counties, eastward and north- ward	New England to Florids; west to British Columbia, California, Idaho, and Texas	Соитол	NA	Aesthetic	None
**Lithospernum tuberosum A. DC. Gromwell HABITAT: low often dry woods,	Eastern Texas	Scattered along coastal plain and in adjacent provinces from Florida to Tennessee and Texas	On Texas rare and endangered plant list	Low as food, seeds eaten by a few songbirds and gamebirds	High aesthetic, scientific	None
**Lithospermum incisum Lehm. Gromwell HABITAT: various type habitats, but usually in sandy soils of prairies, fields, and open-wooded areas	Most of Texas	Widely distributed in United Stales, chiefly on the great plains and along the Rocky Mountains, and extending into adjacent Canada and Mexico	Солитол	Low as food	Aesthetic	None

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Species	State Range	United States Range	Abundace in Region	Use for Wildlife Habitat	Other Values	Project 11t
Lithospermum <u>caroliniense</u> (Walt.) MacM. Puccoon HABITAT: in sandy woods	Eastern pine forests west to the western cross timbers and south to Wilson County on the coastal plain, local in Panhandle	Eastern half of United States	Coimon	gs	High aesthetic, scientific	None
Buglossofdes arvense (L.) 1.M. Johnst. Buglossofdes HABITAT: open woodlands, old fields, and waste places	Eastern half of Texas	Widely introduced in United States, native of Europe	Common	tiA	Aesthetic	None
**Onosmodium occidentale Mack. False-gromwell HABITAT: open rocky woods, prairies, bottomlands, and on hillsides	Central Texas	From Minnesota and 1111nois, west to New Mexico, Utah, and Saskatchewan	di:	ИА	Aesthetic	Unknown
VEKBEHALEAE (vorvain tamily) Verbena rigida Spreng. Tuber vervain HABITAT: cultivated, pastures, prairies, and roadsides	Eastern Texas, west to Fayette and Travis Counties	Introduced in southern United States, native to Brazil and Paraguay	Common	Low as food	Nesthetic	None
**Verbena brasiliensis Vell. Brazilian vervain HABITAT: waste places, dry sandy soil, coastal preiries	Southeastern Texas	introduced, native to most of South America, naturalized from Virginia to Florida and Gulf coast, Oregon, and	Common	Lov as food, slight use by birds as food	Aesthetic	None
**Verbena Hale! Small Texas vervain HABITAT: sandy or calcareous meadows, prairies, fields, woodlands, rocky hillsides, and roadsides	Statewide, especially in eastern, central, and southern Texas	Alabama to Oklahoma, and south to Nexico	Abundant	Low as food, slight use by birds as food	Aesthetíc	None
Verbeng scabra keal Sandpaper vervain MABITAT: mostly rich soil of low ground, marshes, swamps, and edges of lakes and streams	Statewide, except plains country	North Carolina to Florida; west to Arizona, California, and northern Mexico	Common	Low as food, slight use by birds as food	Aesthetic	None

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Crecioe	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Verbena urticifolia L. White vervain HABITAT: low rich or open woods, bottomlands, waste places, fencerows, pastures, streamsides	Northeastern and north-central Texas	Eastern half United States	Соптол	Low as food, slight use by birds as food	Aesthetic	None
**Verbeng xutha Lehm. Gulf vervain HABITAT: dry mostly sandy soil of beaches, fields, roadsides, blackland prairies	Bowie and Navarro to Jefferson and Cameron Countles, west to the Trans- Pecos	Alabama to Arizona	Сопято п	Low as food, seeds and plants eaten by birds and small mammals to slight extent	Aesthetic	None
**Verbena canescens H.B.K. Gray vervain HABITAT: sand and rocky places on dry limestone hills, valleys, and canyons	Edwards Plateau and south-central Texas	Texas, Mexico, and California	Согтол	Low as food, seeds and plants caten by birds and small mammals to slight extent	Aesthetic	None
Verbena bracteata Lag. and Rodr. Prostrate vervain HABITAT: low and newly cleared ground, grassy places, waste ground, roadsides	From the Trans- Pecos and plains country, through Edwards Plateau east to Kewton County	Almost throughout United States	Conumon	Low as food, seeds and plants eaten by birds and small mammals to slight extent	Aesthetic	None
**Verbena canadensis (L.) Britt. Rose vervain HABITAT: open ground, fields, woods, pinelands, readsides, railroad embankments	Most of Texas	Illinois to Tennessee, southern Pennsylvania, Virginia, and Florida, west to Colorado; introduced in Connecticut, New York, Michigan, and Minnesota	Corron	Low as food, seeds eaten by marshbirds and songbirds, plants eaten by rabbits	Aesthetic	None
**Verbena bipinnatifida Mutt. Small-flowered verbena HABITAT: dry plains, prairies, meadows, pastures, roadsides, streamsides	Statewide, except in most of the Trans-Pecos	South Dakota to Missouri and Alabama, west to Colorado and Arizona; cultivated elsewhere	Rare	Low as food, seeds eaten by songbirds, plants eaten by rabbits	Aesthetic	None
Verbena pumila Rydb. Pink vervain HABITAT: fields, prairies, chaparral, meadows, pastures, river terraces, woods, sandy slopes and hillsides	Most of Texas	Texas, Arkansas, Oklahoma, New Mexico,	Сопилол	Low as food, seeds eaten by songbirds, plants eaten by rabbits	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Stylodon carneus (Medic.) Moldenke Carolina vervain HABITAT: sandy barrens, woods, and upland	From Hewton and Jefferson Counties, southwest to Kleberg County	North Carolina to Florida, Louisiana, and Texas	IIA	VH.	Aesthetic	Моне
Lantana horrida M.B.K. Texas Tantana NABITAT: flelds, thickets, swamps, rich sandy woods, scrub, gravelly hills, flats, chaparral, roadsides	Almost throughout Texas, except the northwestern area	Cultivated in southwestern United States	Conmon	Fruit eaten by Winter songbirds	Aesthetic, fruit edible	Nono
"*Phyla lanceolata (Michx.) Greene Horthern frog-fruit HABITAT: moist soil of river bottoms, lake shores, and coastal marshes	Eastern half of Texas, Panhandle	Ontario to Minnesota, New Jersey, 1111nois, Kansas, Florida, Texas, and California	НА	VII	Aesthetic	Moderately beneficial
**Phyla incisa Small Texas frog-fruit HABITAT: open ground, fields, pastures, clay or sandy flats, dry riverbanks and bottoms, damp shady wnods, seashores	Throughout Sexas	Texas, Colorado, Oklahoma, and Hissouri to Hew Mexico, Arizona, southern California, and northern Hexico	Cornin	¥ <u></u>	Aesthetic	None
**Phyla nodiflora (L.) Greene Common frog-fruit HAEITAT: wet or moist soil, fields, clearings, hillsides, ditches, thirkets, and	Along the coast from Chambers to Cameron Counties, inland to Kendall, Tom Green, and Childress Counties	Pennsylvania to Florida, Kentucky, Arkansas, Louisiana, Oklahoma, Texas, and California	Uncormon	VI	Aesthetic	Slichtly adverse
**Callicarpa americana L. *Merican beautyberry HABITAT: woods, moist thickets, wet slopes, low rich bottomlands, fencerows, and the edges of swamps	Castern third of Texas	Eastern Texas, Yorth Carolina to Florida and Arkansas, some- times cultiveted	Cornon	High as food for deer, birds, raccoons, squirrel, opossum, and fox; excellent browse plant	Ornamental, erosion , control	Slightly adverso
**Yitex Agnus-castus L. *naste lamb-tree HABITAT: Widely cultivated	Escaped in every part of Texas, except Trans-Pecos, and plains country	Very widely cultivated, naturalized in various parts of southern United States, native of southern furope and Orient	Сопинол	¥1	Ornanenta 1	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Nabitat	Other Values	Project Impact
LABIATAE (mint family)		2	1	4	¥ a	:
Irichostema <u>setaceum</u> Houtt. Trichostema HABITAT: dry sandy soil in open woods	Eastern Tex a s	From Connecticut and New York, south to Florida and eastern Texas	ΝΑ Α	ΑΑ	XX	None
**Trichostema dichotomum L. Forked blue curls HABITAT: sandy soil in open wood and on stream banks	Eastern Texas	New England, south to Florida and Texas	Common	ия	Aesthetic	Slightly adverse
**Teucrium canadense L. American germander HABITAT: in water and mud along streams and canals, about lakes, in marshes and wet grassy swales	Statewide	From Quebec to British Columbia, south to Cuba and Nexico	Conmon	MA	Aesthet 1c	Moderately beneficial
Scutellaria parvula Michx. Skullcap HABITAT: sandy svils or clays on the edge of and in open woods, roadside banks and flats	Eastern and north- central Texas	Eastern half Urited States	Common	NA	HA	None
Scutellaria Erummondii Benth, Skullcap HABIIAT: sandy, gravelly, clayey or rocky soils, or on rocks, ledges and flats in thickets, chaparral, or on open plateaus and slopes	Statewide	Texas, western Oklahoma, southeastern New Mexico, and northern Mexico	Common	HA	Aesthetic	None
Scutellaria integrifolia L. Rough skullcap HABITAT: borders of woods, thickets, and clearings along streams, on seepage slopes, and about ponds	Eastern Texas	Florida to Texas, north to New England, Ohio, Kentucky, and Missouri	IIA	ΥΥ	Aesthetic	None
**Scutellaria cardiophylla Engelm. and Gray Skullcap HABITAT: sandy or rocky soils on the edge of woods and in grassy areas in open woods, on banks, in seepage areas, and old fields	Eastern fourth of Texas, west to Kaufman, Freestone, and Madison Counties	Texas, Arkansas, and possibly western Louisiana	МА	МА	Aesthetic	Unknown

Coorior	Ctato Range	United States Ranne	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Scutellaria ovata Hill Skullcap HABITAT: open woodlands, along roads and on brushy slopes	Eastern and southern Texas	Eastern and central United States	Cormon	IIA	Aesthetic	None
Scutellaria elliptica Muhl. Hairy skullcap HABITAT: dry woods and thickets	Southeastern Texas	Florida to Texas; north to New York, New Jersey, Pennsylvania, West Virginia, Michigan, Ohio, and Missouri	на	NA NA	Aesthetic	None
Hyptis alata (Raf.) Shinrs Cluster bushmint HABITAT: low pinelands, seepage areas, swamps, and marshes	Southeastern Texas	Florida to Texas, north to North Carolina	N A	NA A	Aesthetic	None
**Marrubium vulgare L. Common horehound HABIAT: waste places, along roadsides, about corrals, animal pens, and along roadsides	Statewide	Naturalized throughout much of North America, native of Eurasia	Common	در	Aesthetic, flowering tips and dried leaves used medicinally and as flavoring	None
**Prunella vulgaris L. Common self-heal HABITAT: low meadows, open woodlands, along roadsides and pasturelands	Eastern fourth of Texas	Widespread throughout Worthern Henisphere	Соптоп	КА	Aesthetic	None
Brazoria pulcherrima Lundell Brazoria HABITAT: sandy soils along roadsides and open fields	Leon County	Endemic to Texas	On Texas rare and endangered plant list	ПА	High aesthetic, scientific	None
**Physotegia intermedia (Nutt.) Engelm. and Gray Intermediate lions heart HABITAT: wet periodically flooded areas, or aquatic along ditches, in swamps, marshes, and bottomlands	Eastern and most of southern half of Texas	Kentucky to Kansas, south to Alabama, Louisiana, and Texas	Сошпол	NA	Aesthetic	None
Physostegia angustifolia Fern. False dragon-head HABITAT: marshy areas, along streams, roadsides, fields, and meadows	Eastern and central Texas	Illinois to Tennessee, south to Mississippi, Louisiana, and Texas	Соппсл	ИА	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Physotegia praemorsa Shinners False dragon-head HABITAT: along streams and ditches, in moist grasslands	Eastern and north- central Texas	Texas, Louisiana, and New Mexico; probably Oklahoma	Соптоп	NA	Aesthetic	None
**Physostegia Digitalis Small Finger lions heart HABITAT: sandy open pinelands, edge of forests, prairies, grassiands, and swampy areas	Eastern Texas	From eastern Texas to Louisiana, Arkansas, and probably Oklahoma	NA	NA N	Aesthetíc	Unknown
Physostegia pulchella Lundall False dragon-head HABITAT: wet soil of bottomlands along streams	Eastern Texas	Endemic to Texas	NA	ИА	Aesthetic	Unknown
**Stachys crenata Raf. Shade betony HABITAT: shaded rocky or gravelly soils in woods, ravines in prairies, on banks, and in open grounds	Eastern, central, and southern Texas	Texas, also northeastern Mexico	ИА	NA	Aesthetic	Unknown
Stachys tenuifolia Willd. Hedge-nettle HABITAT: rich bottomlands, lake shures, muddy bayous, low woo .s, and meadows	Eastern fourth of Texas	New York to Minnesota; south to South Carolina, Tennessee, Louisiana, and Texas	NA	NA A	Aesthetic	None
Stachys floridana Shuttlew. Hedge-nettle HABITAT: wet sandy soils	Southeastern Texas	Floride to Texas, north to North Carolina	NA	NA	NA	None
Lamium amplexicaule L. HABITAT: cultivated places, among grasses, waste places, along roadsides	Statewide	Naturalized throughout United States, native of Europe	Corraon	NA	Aesthetic	None
Lamium purpureum L. Red henbit HABITAT: waste places and cultivated ground	Eastern Texas	Naturalized in much of Morth America, native of Europe	Conmon	AN	Aesthetic	None
Leonurus sibiricus L. Motherwort Motherwort HABITAT: fields, open woods,	Northeastern and south-central Texas	Introduced in much of eastern United States, native of Europe	Common	NA	Aesthetic	None

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Species	State Range	United States Range	Ahundance in Pegion	Use for Wildlife Habitat	Other Values	Project Impact
Leonotis nepetaefolia A. Br. Lion's-ears HABITAT: cultivated grounds, roadsides, waste places	Eastern and central Texas	from Florida to Texas, north to Tennessee and North Carolina	Соптоп	NA.	Aesthetic	None
**Salvia lyrata L. Lyre-leaf sage HABITAT: sandy open woods, meadows and clearings	Eastern fourth of Texas	Florida to Texas; north to Connecticut, New York, New Jersey, Pennsylvania, West Virginia, Ohio, Indiana, Illinois, Missouri, and Oklahoma	на	Noctar for hummingbirds and bees	Aesthetic	None
Salvia farinacea Benth. Mealy sage HABITAT: limestone soils in prairies, thickets, meadows, hillsides, and floodplains	Statewide, mostly in central and western Texas	Texas and New Mexico	Соптоп	Mostar for hurmingbirds and bees	Aesthetic	None
**Salvia azurea Lam. Blue sage HABITAT: dry prairies, oak- cedar hills, flats, and openings	Statewide	South Carolina to Florida; west to Nebraska, Colorado, Arkansas, Texas, and Hexico	Conmon	Nectar for hummingbirds and bees	Aesthetic, ornamental	None
Salvia coccinea Murr Tropical sage HABITAT: sandy soils in thickets, chaparral, on edge of and in open wocds	Eastern and southern Texas	South Carolina to Florida and Texas	d ii	Nectar for Furringbirds and bees	Aesthetic	Hone
Monarda Lindheimeri Gray Horsemint HABITAT: sandy soils in and on the edge of woods, in meadows, on slopes and flats	Eastern fourth of Texas	Texas and Louisiana	AH.	на	Aesthetic	None
Monarda fistulosa L. Wild bergamont HABITAT: dry open woods, old fields, wet meadows and ditches, edge of woods and marshes	Eastern fourth of Texas	Eastern half United States	яА	НА	Aesthetic	None
**Monarda citriodora Cerv. Lemon beebalm HABITAT: sandy loams or rocky soils on slopes and hills, or ir prairies, meadows and savarnaks	Statewide	Missouri and Kansas, south to Texas and northeastern Mexico, adventive eastward	Contron	НА	Aesthetic, ornamental	None

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		open C sottet bottell	Abundance	Use for Wildlife Habitat	Other Values	Project Impact
Species		Verse states manye	42	NA	Aesthetic	Unknown
**Monarda <u>clinopodioides</u> Gray Basil beebalm HABITAT: sandy or caliche soils, occasionally on granite in meadows, fields, grassy flats, and grassy areas in	Eastern half of Texas	Kansas through Oklahoma, south to Atascosa County, Texas	<u>\$</u>	£		·
**Monarda punctata L. Spotted beebalm ASPITAT: dryish or sandy soils	Statewide	Eastern half United States	Corgaon	A	Aesthetic	None
Perilla frutescens (L.) Britt. Beefsteak plant HABITAT: damp woods, along open-wooded streams and seepage areas	Eastern Texas	Florida to Texas, north to New England, New York, Ohio, Indiana, Missouri, and Kansas	Common	V ii	Aesthetic, seeds produce an edible oil used in commerce	None
**Lycopus virginicus L. Virginia bugle-weed HABITAT: marshy soils and	Southeastern Texas	Eastern half United States	Rare	NA	hesthetic	Slightly adverse
**Lycopus rubellus Moench Water-horehound HAEITAT: marshes, swamps, bogs, meadows, ditches, seepage areas, and shallow	Eastern Texas	Florida to Texas; north to Hew England, Hew York, Ohio, Michigan, Illinois, and Missouri	Соптол	NA A	Aesthetic	Slightly beneficial
**Hedeoma Drummondii Benth. Mock pentyroyal HABITAI: limestone soil, roadcuts, bluffs and rocky	Statewide, rare in extreme eastern Texas	NA	Соптоп	NA A	Aesthetic	None
**Hedeoma hispidum Pursh Mock pennyroyal HABITAT: loamy soil of prairies and pastures	Eastern half of Texas	Texas to the Atlantic coast, north to Alberta, and east to New York	NA	иА	Aesthetic	None
Rhododon ciliatus (Benth.) Epl. Rhodon HARITAT: sandy soil	Smith and Robertson Counties to Refugio County	Endemic to Texas	Uncommon	NA	Aesthetic	None
Satureja arkansana (Nutt.) Briq. Satureja HABITAT: on calcareous rocks in ravines, on banks, and in barrens	Esstern and central Texas	From Ontario to Minnesota, south to Arkansas and Texas	NA	NA	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Hildlife Habitat	Other Values	Project impact
Pycnanthemum tenuifolium Schrad. Mountain-mint HABITAT: grassy moist open woods, bogs, savannahs, old fields, meadows, and marshes	Eastern fourth of Texas	Georgia to Texas; north to New England, New York, Ontario, Ohio, Michigan, Wisconsin, and Minnesota	нА	XA	Aesthetic	None
Pycnanthemum albescens T. & G. Mountain-mint HABITAT: low open woods, often along streams, in savannahs, and in thicket areas	Eastern Texas	Florida to Texas, north to Missouri and eastern Oklahoma	Сонтоп	5	Aesthetic	None
Cunila origanoides (L.) Britt. Stone mint HABITAT: dry open woods and thickets	Morth-central Texas	Florida to Texas, north to Hew York, Pennsylvania, West Virginia, Ohio, Indiana, Illinois, Missouri, and Oklahoma	NA NA	#Z	Aesthetic	Unknown
SOLAWACEAE (potato or nightshade family)	aily)					
Physalis viscosa L. Ground Cherry HABITAT: in and near woods	Mortheastern Texas	Texas, ⁴ rkansas, and Oklahoma	Cor non	Low as food, fruit eaten by birds, foliage eaten by rabbits	Aesthetic, poisonous	None
**Physalis pumila Nutt. Prairie ground cherry HABITAT: prairies and open woods	Mortheastern Texas to Brazos County	Texas, eastern Oklahoma, Kansas, and Missouri	Сопилоп	Low as food, fruit eaten by birds, foliage eaten by rabbits	Aesthetic, poisonous	None
**Physalis heterophylla Hees Clammy ground cherry HABITAT: various habitats	Eastern Texas to Kenedy County	Midespread eastern United States and Canada, local in northern and central Rocky Mountains and Great Basin	Common	Low as food, seeds occasionally eaten by upland gamebirds and songbirds	Aesthetic, poisonous	None
**Physalis virginiana Will. Ground cherry HABITAT: open woods, adjacent prairies and disturbed areas	Eastern Texas	Eastern United States	Corrnon	Low as food, fruits eaten by gamebirds and small mammals	Aesthetic, poisonous	None
**Physalis angulata L. Ground cherry "AELTAT: open woods and disturbed babitats	Eastern and coastal Texas	Southern half United States	Common	Low as food, fruits eaten by carebirds and s all remals	Aesthetic, noiscnous	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Physalis turbinata Medic. Ground cherry HABITAT: open woods, brushland, and valleys	Eastern Texas and along the Gulf to the lower Rio Grande	Southern United States	Соптоп	Low as food, fruits eaten by gamebirds and small mammals	Poisonous	None
**Physalis pubescens L. Downy ground cherry HABITAT: open woods, thickets, and adjacent areas	Eastern half of Texas	Southern United States	Common	Low as food, fruits eaten by upland gamebirds and small mammals	Aesthetic, fruit edible	None
**Lycopersicon esculentum Hill. Tomato HABITAT: cultivated	Statewido	Introduced widely in United States, native of western South America	Uncommon, escape from cultivation	Low value as food	Fruit edible, commercial crop	None
**Solanum eleeagnifolium Cav. Silver-leaf nightshade HABITAT: dry sterile soils in open woods, prairies, waste places, and disturbed soils	Statewide	From Missouri and Kansas, south to Louisiana, Texas, and Arizona; adventive elsewhere in the United States	Сонтоп	Moderate as food, fruit eaten by wood duck, sora rail, gamebirds, and some fur and ',ame mammals; fruit and leaves eaten by small mammals	Aesthetic, poisonous	None
**Solanum carolinense L. Carolina horse-nettle HABITAT: fields, open woodlands, waste places. sandy or light soils	Eastern Texas	From Texas, north to Minnesota and east to the Atlantic Ocean	Cormon	Low as food, fruit eaten by birds and mammals	Aesthetic, poisonous	None
**Solanum dimidiatum Raf. Western horse-nettle HABITAT: prairies, and sandy soils	Statewide, except extreme eastern and western areas	From Kansas, Missouri, and Arkansa ^c , south to Texas	Сопупол	Low as food, fruit eaten by birds and mammals	Aesthetic, poisonous	None
**Solanum rostratum Dun. Buffalo bur HABITAT: over-grazed land, flats, and waste places	Statewide	From Nebraska to Texas, adventive eastward and north- ward	Соптпол	Low as food, fruit eaten by wildlife	Aesthetic, very poisonous	None
Solanum sisymbrifolium Lam. Sticky nightshade HABITAT: roadsides, waste places, and other such areas	Eastern Texas	Adventive or escaped from cultivation from Texas to Florida, north to New England and Ohio, native of Brazil	Conwon	Low as food, fruit eaten by wildlife	Aesthetic, poisonous	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	ûther Values	Project Impact
Solanum aculeatissimum Jacq. Cockroach berry HABITAT: open woodlands, along rivers and in waste grounds	Southeastern Texas	Southern United States	NA	Low as food, fruit eaten by wildlife	Aesthetic, poisonous	None
**Solanum triquetrum Cav. Texas nightshade HABITAT: low hills, slopes, and in thickets, and on breaks	Central, southern, and western Texas	Texas and Mexico	Conmon	Low as food, fruit eaten by wildlife	Aesthetic, poisonous	None
**Solanum americanum Hill. American nightshade HABITAT: rocky or dry open woods, thickets, shores, or openings, often spreading to cultivated or waste ground	Statewide	New England to North Dakota, south to Florida, Louisiena, and Texas	Cormon	Low as food, fruit and leaves eaten by wildlifeincluding upland gamebirds, songbirds, fur and qame rammals	Aesthetic, poisonous	None
Lycium carolinianum Malt. Carolina wolfberry MABITAT: ponds, along and in Citches, marshes, on wet clay flats, salt flats, in sandy-gravelly soil or brush-covered hills	Crastal and southern rexas	Mississipni to Texas	Coranon	Low as wildfowl food	Aesthetic, fruit edible, poisonous	None
Petunia parviflora Juss. Wild petunia HABITAT: moist or wet soil in beds of streams, along beaches and on muddy flats	Statewide	Southern Florida to California, north to Virginia, south to tropical America	Cormon	VII	Aesthetic	None
Datura Urightii Regel Jimson-weed HABITAT: louse sand, on floodplains and bottom- lands	Eastern Texas to Trans-Pecos	From Texas, west to California and northern Mexico	Conmon	Low as food	Aesthetic, toxic plant to humans	None
**Datura Stramonium L. Jimson-weed HABITAT: cultivated areas and waste places	Statewide	Widely distributed in the Norld	Сопятол	Low as food	Aesthetic, ornamental, toxic plant to humans	None
<pre>% SCROPHULARIACEAE (figwort family) ** Gacopa Monnieri (L.) Nettst. Water-hyssop</pre>	Eastern, central, and southern Texas	Florida to Texas, north to Virgínia	Common	Low as food, rinor duck food	м	Slightly adverse

		open opened soften	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Species Bacopa caroliniana (Walt.) Robins. Blue hyssop HABITAT: on margins of ponds and streams, in bogs in	State kange Eastern Texas	From Florida to Texas, north to Virginia	Common	Low as food, minor duck food	Aesthetic	None
Bacopa rotundifolia (Michx.) Wettst Disc water-hyssop HABITAT: mud and water in and about lakes, pools,	Statewide	Mississippi to Texas; north to Indiana, Illinois, Minnesota, North Dakota, and Montana	Соптоп	Low as food, minor duck food	Aesuncic	None
Mecardonia acuminata (Walt.) Small Mecardonia HARITAT: ditches, bogs, depressions in fields and prairies, swamps and flat	Eastern Texas	Delaware and Maryland; south to Florida, Texas, and Missouri	Conmon	ΑΑ Α	AF.	None :
Gratiola pilosa Michx. Hairy hedge-hyssop HABITAT: bogs, swamps, and moist sandy woods	Eastern third of Texas	Florida to Texas; north to New Jersey, "aryland, Horth Carolina, Kentucky. Arkansas, and Oklahoma	Common	₹	Aesthetic	None
**Gratiola brevifolia Raf. Sticky hedge-hyssop HABITAT: bogs, marshes, wet meadows, and in and on the edge of water in ponds and	Eastern Texas	Georgia to Texas and Arkansas	Contron	tiA	Aesthetic	Slightly beneficial
Gratiola neglecta Torr. Hedge-hyssop HABITAL: wet or muddy places	Eastern third of Texas	Much of United States	Сошпоп	NA	Aesthetic	None
Gratiola virginiana L. Gratiola virginiana L. Hedge-hyssop HABITAT: water of streams, lakes, ponds, and ditches, in boggy areas and in open flats in forests	Eastern third of Texas	Flordia to Texas; north to New Jersey, Maryland, West Virginia, Ohio, Indiana, 111inois, Iowa, and Kansas	Conmon	VN.	Aesthetic	None

			Abundance	Use for wildlife Habitat	Other Values	Project Impact
Species	State Range	United States Kange	וווו אפטוטוו	VI	Apsthetic	Slightly
** <u>Leucospora multifida (Michx.)</u> "Mutt. Leucospora HARITAI: mud and sand-gravel	Central and eastern Texas	Ontario to lowa and Kansas; south to Georgia, Alabama, Louisiana, and Texas	Common	¥ Z		adverse
Scoparia dulcis L. Sweet broomwort HABITAT: disturbed soils,	Eastern Texas	From southern United States to South America	Common	NA	Aesthetic	None
**Mimulus alatus Ait. Monkey-flower HABITAT: wet areas, especially along wooded	Eastern Texas, west to blackland prairies	Massachusetts, south to South Carolina and west to Texas	Common	HA	Aesthetic	Slightly adverse
streams Lindernia dubia (L.) Penn, False pimpernel HABITAT: mud of swamps,	Eastern Texas	Throughout most of United States	Conaron	NA	Aesthetic	None
and stream margins **Lindernia anagallidea (Michx.) Penn. False pimpernel HARITAT: sandy margins of	Throughout most of Texas, except the Trans-Pecos	Throughout most of United States	Соптол	NA	Aesthetic	Moderately beneficial
**Hicranthemum umbresum (Walt.) **Hicranthemum umbresum (Walt.) Blake Shade mud-flower HARITAT: mud or wet sand in	Eastern Texas	Florida to Texas, north to Virginia	НА	NA	Aesthetic	Slightly adverse
**Verbascum Thapsus L. Flannel mullein fields, on rocky or gravelly banks and in open	Throughout most of Texas	Adventive from Europe in much of North America	Conmon	RA	Aesthetic	Slightly adverse
woodlands Verbascum Blattaria L. Woth mullein HABITAT: roadsides and old fields	Eastern Texas	New England to Ontario, south to Florida and Texas, adventive from	Солино п	ня	Aesthetic	None
Verbascum virgatum Stokes Mullein HABITAT: along roadsides	Eastern Texas	Canada, south to Texas and westward, adventive from Eurcpe	Сопипол	HA	Aesthetic	None

			Abundance	Use for	Other Values	Project Impact
Specific	State Range	United States Range	in Region	אוופוווב ושמורמר	A	
Penstemon Murrayanus Hook Beard-tongue HABITAT: sandy soil	Eastern Texas	Texas; adjacent parts of Oklahoma, Arkansas, and Loufsfana	Common	Low as food	Aes thet i c	None
**Penstemon tenuis Small Beard-tongue HABITAT: low poorly	Gulf prairies and marshes	Texas, Louisiana, and Arkansas	Uncommon	Low as food, seeds rarely eaten by birds and small mammals	Aesthetic	Slightly adverse
drained loamy soils **Penstemon laxiflorus Penn. Beard-tongue HABITAT: acid soils	Gulf coastal plain, eastern Texas	Gulf coastal plain	Conmon	Low as food, seeds rarely eaten by birds and small mammals	Aesthetic	Slightly adverse
Collinsia violacea Nutt. Violet collinsia HABITAT: sandy post oak	North-central Texas	Missouri to Kansas, south to Texas	Common	Low as food, minor quail food	Aesthetic	None
woods **Linaria <u>vulgaris</u> Mill. Butter-and-eggs HABITAT: NA	North-central Texas	Introduced in various parts of North America, native of Eurasia	Rare	11A	Aesthetic	Unknown
**Linaria texana Scheele Texas toad-flax HABITAT: sandy snils in fields, open woods,	Mostly eastern two-thirds of Texas	British Columbia to Mexico, east to the Atlantic coast	Common	NA	Aesthetic	None
and grassy pinelands **Linaria caradensis (L.) Dum. Old field toad-flax #ABITAT: sandy-grassy areas in open woodlands, rare	Eastern third of Texas	Widespread over much of United States	Сонтол	NA A	Aesthetic	None
in caliche **Veronica peregrina L. Pursiane speedwell HABITAT: water of tanks and streams, open flatwoods, swamps, prairies, and dune	Statewide	Throughout most of North America.	Сопиноп	RA	Aesthetic	Slightly adverse
veronica arvensis L. Common speedwoll HABITAT: moist open-wooded slopes, in fields and sandy flatwoods	Eastern Texas	Throughout most of United States, naturalized from Eurasis	Conmon	ИА	Aesthetic	None

Specfes	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Veronica polita Fries Wayside speedwell HABITAT: waste places, lawns, and along roadsides	Eastern and north- central Texas	Eastern United States, naturalized from Eurasia		HA	Aesthetic	None
Aureolaria pectinata (Nutt.) Penn. False foxglove HABITAT: sandy soil of grasslands, open woods	Southeastern Texas	Florida to Texas, north to North Carolina, Kentucky, and Missouri	Conmon	V2	Aesthetic	None
Aureolaria grandiflora (Benth.) Penn False foxglove HABITAT: dry open woods, and along streams in woods	Forest belt of eastern Texas	From Lake States, south to Texas	Соптол	ПА	Aesthetic	None
Aureolaria dispersa (Small) Penn. False foxglove HABITAT: sandy soil of open woodlands and thickets	Southeastern Texas	Texas and east to Alabama	On Texas rare and endangered plant list	None	High aesthetic, scientific	None
Aureolaria flava (L.) Farw. False foxglove HABITAT: open-wooded slopes, edge of woods and along streams	Southeastern Texas	Maine to Ontario, Michigan, and Wisconsin; south to Florida and Texas	Соптоп	RA T	пА	None
Dasistoma macrophylla (Mutt.) Raf. North-central Mullein foxglove HABITAT: rich woods, banks of streams	North-central Texas	West Virginia to Wisconsin, Iowa, and Webraska; south to Georgia, Alabama, Mississippi, Louisiana, and Texas	On Texas rare and endangered plant list	Rone	High aesthetic, scientific	None
Seymeria cassioides (Walt.) Blake Seymeria HABITAT: sandy pinelands	Eastern Texas	Florida, Louisiana, and Texas; north to Virginia, Tennessee, and Alabama	IIA IIA	NA	КА	None
Tomanthera auriculata (Michx.) Raf. Tomanthera HABITAT: prairies, open woods, and fields	North-central Texas	From New Jersey to Minnesota; souf! to Vírginia, Alabama, Tennessee, Arkansas, and Texas	NA	NA	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Agalinis Gattingeri (Small) Small Agalinis HABITAT: moist or dry soils on slopes and in open woodlands and barrens	Eastern Texas	Ontario to Minnesota and Nebraska; south to Alabama, Louisiana, and Texas	NA	иА	Aesthet:	None
**Agalinis viridis (Small) Penn. Green gerardia HABITAT: sandy soils in pinelands and prairies	Eastern Texas	Missouri to Louisiana, Texas, and Oklahoma	NA	и	Aesthetic	None
Agalinis maritima (Raf.) Raf. Salt marsh gerardia HABITAT: salt marshes and beach dunes	Gulf coast	Nova Scotia to Florida and Texas	IIA	NA	Aesthetic	None
Agalinis <u>pulchella</u> Penn. Agalinis HABITAT: sandy or clayey soils in longleaf pinelands and grasslands on slopes	Southeastern Texas	Northern Florida and Georgia to Texas	NA	A5	NA A	None
Agalinis homalantha Penn. Agalinis HABITAT: sandy soil of post-oak woods, cut-over fields and plains	Eastern and north- central Texas	Texas, southern Oklahoma	КA	ИА	Aesthetic	None
**Agalinis heterophylla (Nutt.) Small Prairie agalinis HABITAT: prairies and plains, grasslands and fallow fields, sometimes on rocky soils or in open woodlands, usually somewhat moist	Texas, in a line from Grayson County to Cameron County and eastward	Missouri and Oklahoma to Louisiana and Texas	NA NA	N A	Aesthetíc	None
Agalinis oligophylla Penn. Agalinis HABITAT: sandy or clayey soils in prairies, savannahs, and longleaf pine regions	Southeastern Texas	Texas and Louisiana	ИА	NA A	۷ ۲	None
Agalinis purpurea (L.) Penn. Agalinis HABITAT: moist sandy soil in bogs, seepage areas, moist prairies, open pinelands, bar-ens, and along shores	Eastern Texas	Nova Scotia to Minnesota, south to Florida and Texas	NA	NA NA	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Agalinis fasiculata (Ell.) Raf. Agalinis HABITAT: Dry or mois. soils in savannahs, open flathands, tidal marshes	Eastern and north- central Texas	Florida to Texas; north to Maryland, Missouri, and Arkansas	IIA	NA NA	Aesthetic	None
Buchnera americana L. Bluehearts HABITAT: moist sandy soil of open woods, prairies, meadows, and marshy areas	Eastern Texas	Florida to Texas; north to New Jersey, New York, Ontario, Michigra, Illinois, Missoiri, and Kansas	ИÀ	NA	Aesthetic	None
Buchnera <u>floridana</u> Gand. Bluchearts HABITAT: sandy or gravelly soils	Southern half of Texas	Southeastern United States	۷u	ИА	Aesthetic	None
Schwalbea americana L. Chaff-seed HADITAT: moist to dry pinelands, oak woods and clearings	Local eastern Texas	Local from Florida to eastern Texas; north to Massachusetts, Connecticut, New York, Kentucky, and Tennessee	Locally common	ПА	A N	None
Pedicularis canadensis L. Common lousewort HABITAT: open forests, on the edge of forests, on open seepage slopes, also in clearings and prairies	Eastern Texas	Maine and Quebec tr Manitoba; south to Florida, Mississippi, Louisiana, Texas, and northern Mexico	Contrion	VV	Aesthetic	None
Castilleja purpurea (Nutt.) G. Don Purple paintedcup HABITAT: usually on calcareous gravelly or sandy soils	Several varieties over much of Texas	Southern Kansas and southern Missouri through Oklahoma and Texas	Саптоп	Flowers visited by bees and hummingbirds	High aesthetíc	None
**Castilleja indivisa Engelm. Texas paintbrush HABITAT: wet sandy loam soils	Coastal plain and eastern half of Texas	Southeastern Oklahoma and Texas	Abundant	Flowers visited by bees and hummingbirds	High aesthetic	None
<pre>81GRONIACEAE (catalpa family) **Campsis radicans (L.) Seem. Trumpet-honeysuckle HABITAT: various habitats, climbing over shrubs, trees, and fences</pre>	Eastern half of Texas	Southeastern United States	Сопто п	Moderate as food for wildlife including deer, squirrel	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Catalpa <u>speciosa</u> Warder Catalpa HABITAT: damp woods and on the edge of swamps and along streams	Eastern Texas	Southern Illinois and Indiana, south to eastern Texas	Uncommon	Moderate as cover and nesting sites	Aesthetic, ornamental	Slightly adverse
Catalpa <u>bignonfoldes</u> Walt. Common catalpa HABITAT: cultivated	Eastern Texas	Southern United States, occasionally escapes cultivation	Uncommon	Moderate as cover and nesting sites	Aesthetic, ornamental	None
Paulownia tomentosa (Thunb.) Steud. Princess-tree HABITAT: escapes cultivation, along roadsides, in clearings and on the edge of woods	Eastern Texas	Florida to Texas, north to West Virginia Virginia, and New York	Соптол	Moderate as cover and nesting sites	Aesthetic, ornamental	None
LENTIBULARIACEAE (bladderwort family)	~					
**Utricularia subulata L. Bladderwort HABITAT: wet peat, sands, and on seepage slopes and pond shores	Eastern Texas, also Winkler County in western Texas	Florida to Texas and Arkansas; north to Long Island, southeastern Massachusetts, and western Nova Scotia	VI	W	Aesthetic	Slightly beneficial
Utricularia cornuta Michx. Horned bladderwort HABITAT: wet peaty, sandy, or muddy shores or bogs, sometimes on edge of water	Eastern half of Texas	Eastern half of United States	NA	ИА	Aesthetic	None
Utricularia inflata Walt. Floating bladderwort HABITAT: ditches, swamps, slow streams, lakes, and ponds	Eastern Texas	Florida to Texas, north to Delaware and New Jersey	БЯ	NA	Aesthetíc	None
**Utricularia gibba L. Cone-spur bladderwort NABITAT: mud of marshes, bogs, and seepage areas, on floating debris in shallow water	Eastern half of Texas, south to Cameron County and west to Val Verde County	Florida to Texas and Mexico; north to Canada, Michigan, Wisconsin, Minnesota, and Oklahoma; west to California	мА	NA	Aesthetic	Slightly beneficial
Utricularia fibrosa Walt. Bladderwort HABITAT: floating on mats of debris and rooted in shallow water of slow streams, ponds, and lakes	Eastern Texas	Massachusetts to Florida; west to Texas, Arkansas, and Oklahoma	NA	A	NA	Moderately beneficial

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Species	State Range	United States Range	in Region	WIIdilte Habitat	Juliet values	
ACANTHACEAE (acanthus family) Elvtraria bromoides Oerst	Gulf coast	Texas, eastern Mexico	ИА	NA	Aesthetic	None
Wheatspike scaly-stem HABITAT: sandy soil				;	A + 150	o S
Thunbergia alata Sims Black-eved susan	Southern and eastern Texas	Cultivated, native of tropical America	Rare	NA	אני מביי מביי	ם פוס
HABITAT: in fields, along trails, edges of thickets, gardens, and open waste						
**Ruell'1 nudiflora (Gray)	Southern half of Texas	Texas, northeastern Mexico	Соптоп	Low as food for gamebirds	Aesthetic	None
Kuellla HABITAT: various habitats, ubiquitous				-	()	2
**Ruellia Corzoi Tharp and Barkl.	Southwestern and southern Texas	Texas, northeastern Mexico	NA	Low as tood for gamebirds	ves the tito	MONE
Hild petunia HABITAT: in and along arroyos and draws, in depressions, and on limestone						
Ruellia pinetorum Fern.	Eastern Texas	Florida to Texas, north to South	On Texas rare and endangered	None	High aesthetic, scientific	None
HABITAT: low pine barrens and prairies		Carolina	plant 11st			7[440:13
**Ruellia pedunculata Torr. Wild petunia HABITATOPEN WOOds and	Eastern Texas	Southern Illinois, Missouri, and Oklahoma to Louisiana and Texas	иA	Low as food for gamebirds	Aestnetic	adverse
**Ruellia strepens L. Wild petunia HAGITAT: rich woods, talus slopes, and low woodlands, commonly in calcareous areas	Eastern and north- central Texas	Texas to South Carolina; north to New Jersey, Ohio, Pennsylvania, Indiana, Illinofs, Missouri, and Kansas	Согмол	Low as food for gamebirds	Aesthetic	Slightly adverse
**Ruellia humilis Nutt. Ruellia HABITAT: open forests, savannahs, and old fields	Eastern fourth of Texas, rare on Edwards Plateau and in Panhandle	Most of eastern half United States	Соптол	Low as food for gamebirds	Aesthetic	Slightly adverse

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Ruellia caroliniensis (Walt.) Steud. Ruellia HABITAT: pinelands, thickets, and prairies	Eastern Texas	New Jersey to Ohio and southern Indiana, south to Florida and Texas	ИА	Low as food for gamebirds	Aesthetic	Slightly adverse
** <u>Dicliptera</u> <u>brachiata</u> (Pursh) Spreng. Dicliptera HABITAT: sandy and moist places	Central and southern Texas	Florida to Texas; north to Virginia, Indiana, and Missouri	Соптол	NA	Aesthetic	None .
Siphonoglossa pilosella (Nees) Torr. Tube-tongue HABITAT: rocky and gravelly soils in chaparral on hills, benks, and along streams	Southern two-thirds of Texas	Texas, adjacent Mexico	NA	NA N	Aesthetic	Slightiy adverse
Yeatesia viridiflora (Nees) Small Yeatesia HABITAT: pinewoods, gulf prairies and marshes	Eastern Texas	Florida to Texas, north to Georgia and Tennessee	ii. A	¥!!	Aesthetic	None
**Justicia americana (L.) Vahl American vater-willow HABITAT: shallow water and mud	Eastern, south- eastern, and north- central Texas; Edwards Plateau	Georgia to Texas; north to Quebec, Vermont, New York, Ontario, Wisconsin, Missouri, and Kansas	in.	V!	Aesthetic	Moderately beneficial
**Justicie lanceolata (Chapm.) Small Lance-leaved water-willow HABITAT: wet and swampy grounds	Southeastern Texas	Florida to Texas, north to Virginia	NA	H H	Aesthetic	None
PHRYMACEAE (lopseed family) Phryma leptostachya L. Lopseed HABITAT: open woodlands and thickets	Eastern Texas	Eastern two-thirds United States	NA	NA	Aesthetic	None
PLANTAGINACEAE (plantain family) **Plantago major L. Common plantain HABITAT: cultivated	Introduced statewide	Introduced throughout United States, native of Europe	Common	Low as food, some use as food for songbirds, srall rammals	Need	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Plantago virginica L. Pale-seeded plantain HABITAT: thin soil over rocks, along roadsides, in open thickets and flat woods, salt marshes and dunes	Eastern third of Texas	Massachusetts and New York; west to Wisconsir, Iowa, and Kansas; south to Florida and Texas; introduced farther west	Consmon	Low as food, seeds eaten by songbirds, leaves eaten by grouse, small mammals, and deer	NA	None
**Plantago rhodosperma Dcne. Red-seeded plantain HABITAT: rocky soils in brushlands and on slopes, occasionally in sandy soils and on gravel bars of washes and streams	Almost entirely west of the blackland prairies	Missouri and Tennessee; west to Kansus, Texas, and Arizona; adventive farther west	Сонтоп	Low as food, seeds eaten by birds, plants caten by rabbits	NA	None
**Plantago Hookeriana Fisch. and Mey. Tallow weed HABITAT: sandy, gravelly, or rocky soils in open woods, dunes, savannahs, and clay flats	Eastern Texas, along the coast to the Rio Grande valley, and inland west to the Trans- Pecos	Possibly endemic to Texas	Common	Low as food, some use of seeds as food by birds	tt T	None
**Plantago <u>Wrightiana</u> Pcne. Plantain HABITAT: sandy, gravelly, or rocky soils	Edwards Plateau or adjacent to it	Texas, west to Arizona	Uncommon	Low as food, eaten by a variety of birds and small mammals	NA N	None
**Plantago <u>aristata</u> Michx. <u>Buckthorn</u> HABITAT: dry sterile or sandy soils	Eastern fourth of Texas	Naine to Michigan, North Dakota, Montana, and Oregon; South to Florida, Texas, and northern Mexico	Cornon	Low as food, some use of seeds as food by birds	٧:	None
**Plantago patagonica Jacq. Plantain HABITAT: sandy, gravelly, or rocky soils, prairies, plains, hillsides	Statewide, except extreme eastern area	Much of United States	Common	Low as food, eaten by variety of birds and small mammals	NA	None
**Plantago Helleri Small Plantain HABITAT: sand-gravel beds of dry washes, on limestone slopes and in sandy soils of flats	North-central Texas and Edwards Plateau, west to R10 Grande plains and Trans- Pecos	Texas and adjacent Mexico	Common	Low as food, eaten by variety of birds and small mammals	W W	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Plantago hybrida Bart. Plantain HABITAT: wet sands and shallow soils in rocky areas, fallow fields and flat woods occasionally in salt marshes	Eastern third of Texas	Rather widespread, especially in southern United States	Соптоп	Low as food, seeds eaten by songbirds, leaves eaten by grouse, small mammals, and deer	ия	None
Plantago elongata Pursh Plantain HABITAT: moist or dry sandy soil, commonly shallowly covering flat rocks	Eastern, southern, and north-central Texas	New England to the Lake States, south to Florida and Texas	Rare	Low as food, seeds eaten by birds, plants eaten by rabbits	ν. V	None
RUBIACEAE (madder family) Galium uniflorum Michx. Bedstraw HABITAT: rich woods	Eastern Texas	Florida to Texas, north to eastern Virginia	нА	Low as food for small mammals	Aesthetic	None
**Galium virgatum Rutt. Southwest bedstraw HABITAT: dry barrens, glades and rocky woods	Edwards Plateau, northwestern Texas	Louisiana and Texas, north to Tennessee and Missouri	NA	Low as food for small mammals	Aesthetic	None
**Calium obtusum Bigel. Bluntleaf bedstraw HABITAT: low woods, swamps, wet shores	Eastern Texas	From Florida to Arizona; north to Southwestern Nova Scotia; southern and western New England, southern Ontario, Michigan, Wisconsin, Nebraska,	Ą	Low as food for small mammals	Aesthetic	None
**Galium tinctorium L. Dye bedstraw HABITAT: swamps and damp places	Eastern fourth of Texas	Newfoundland to Ontario and Nebraska; south to South Carolina, Kentucky, Missouri, and Texas	NA NA	Low as food for small mammals	Aesthetic	None
**Galium pilosum Ait. Hairy bedstraw HABITAT: dry woods, flatwoods, prairies, and copses	Eastern third of Texas	Southern New Hampshire to southern Ontario and Michigan; south to North Carolina, Tennessee, Missouri, Oklahoma, and Texas	NA	Low as food for small mammals	Aesthetic	None

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**Gallum texense Gray Texas bedstraw HABITAT: rocky slopes and bluffs, sandy open woodlands	Eastern part of Edwards Plateau, south to Live Oak and Gonzales Counties, and north to Palo Pinto County	Texas, Oklahoma, and Arkansas	NA NA	Low as food for small mammals	Aesthetic	None
**Galium Aparine L. Catchweed bedstraw HABITAT: rich woods, thickets, prairies, seashores, waste ground	Eastern, central, and southern Texas	Newfoundland to Alaska; south to Florida, Texas, and California	Соптоп	Low as food for small mammals	Aesthetic	None
<u>Galium</u> triflorum Michx. Fragrant bedstraw HABITAT: woods and thickets	Eastern, and north- central Texas	Newfoundland to Alaska; south through eastern Canada and the northern states and more sparingly to Virginia, Tennessee, Louisiana, Texas, California, and Mexico	Ψ.	Low as food for small mammals	Aesthetic	None
Sherardia arvensis L. Spurwort HABITAl: fields, on road shoulders and thickets	Eastern Texas	Introduced from Old World	Common	МА	Aesthetic	None
**Hedyotis <u>nigricans</u> (Lam.) Fosb. Bluets HABITAT: variety of habitats	Statewide	Florida to Arizona; north to Georgia, Ohio, southern Michigan and Nebraska	Common	Low as food for some songbirds	Aesthetic	None
Hedyotis australis Lewis and Moore Bluets HABITAT: pastures, waste fields, roadsides	Eastern and southeastern Texas	Central Georgia, from castern Mississippi to Texas, and southern Arkansas	Common	Low as food for some songbirds	Aesthetic	None
**Hedyotis crassifolia Raf. Small bluets HABITAT: pastures, praíries, waste fields, roadsides	Eastern third of Texas	Florida to Texas; north to Virginia, Illinois, and Kansas	Common	Low as food for some songbirds	Aesthetic	None
**Hedyotis uniflora (L.) Lam. Bluets HABITAT: wet sandy-loam banks	Eastern Texas	Florida to Texas, north to southern New York and south- eastern Missouri	Uncommon	Low as food for some songbirds	Aesthetic	None

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Project Impact	None	Moderately adverse	None	None	Moderately adverse	Moderately adverse	None	Moderately adverse	None
Other Values	Aesthetic	Aesthetic, shrub and tree bark poisonous	Aesthetic, fruit edible	NA NA	Aesthetic	Aesthetic	Aesthetic	Fruit edible	NA
Use for Wildlife Habitat	Low as focd for some songbirds	Low as food for waterfowl	Low as food	ия	NA	Low as food, seeds occasionally eaten by upland gamebirds, plants eaten by hoofed browsers	Low as food, seeds eaten by prairie chickens and turkey, plants eater by deer	High as food for wildlife including deer, squirrei, turkey; cover	High as food for wildlife including deer, squirrel, turkey; cover
Abundance in Region	Uncommon	Соптоп	NA	Uncommon	N A	NA	Uncommon	Common	A A
United States Range	Florida to Texas, north to southeastern Virginia, Tennessee, and southeastern Missouri	Florida to Mexico; north to eastern Canada, New York, and west to California	Florida to Texas, north to eastern Canada, Ontario, and Minnesota	Introduced from Brazil along the Gulf coast	Florida to Texas; north to Ohio, Indiana, Illinois, Missouri, and Kansas	Florida to Texas; north to New Jersey, linois, and Missouri	Florida to Texas; north to New England, Ohio, Illinois, and Missouri	Florida to Texas; north to New England, Kentucky, and Arkansas	Newfoundland to Manitoba, south to Florida and Texas
State Range	Eastern Texas, rare in south- central Texas	Statewide	Eastern Texas	Gulf coast	Eastern third of Texas	Eastern third of Texas	Eastern two-thirds of Texas, rare on Edwards Plateau	Eastern Texas	Eastern Texas
Species	Hedyotis Boscii DC. Bluets HABITAT: edges of ponds and rivers in lowlands, and savannahs	**Cephalanthus occidentalis L. Common buttonbush HABITAT: Swamps, about ponds, and margins of streams	**Mitchella repens L. Two-eyed berry HABITAT: dry or moist knolls in woods	Richardia humistrata (Cham. and Schlecht.) Richardia HABITAT: dry sandy places	**Spermacoce glabra Michx. Smooth buttonweed HABITAT: damp shores, low woodlands, in openings	**Diodia <u>virginiana</u> L. buttonweed HABITAT: swamps, meadows, coastal prairies, in mud along streams	**Diodia teres Walt. Poor Joe HABITAT: sandy soils in woodlands and open areas	CAPRIFOLIACEAE (honeysuckie tamily) **Viburnum nudum L. Possum-haw HABITAI: along streams in swamp forests, bogs, and in wet pinelands	Viburnum nitidum Ait. Withe-rod HABITAT: swamps and wet woods

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Viburnum rufidulum Raf. Southern black-haw HABITAT: edge of woods, along streams, open woods, thickets	Eastern and central Texas	Florids to Texas; north to Virginia, southern Ohio, southern Indiana, southern Illinois, and Missouri	Common	High as food for wildlife including deer, squirrel, turkey; cover	Fruit edible, historical value	Moderately adverse
Viburnum prunifolium L. E ack-haw HABITAT: woods, thickets, along roadsides, in moist or dry soil	Eastern Texas	Northern Florida to Texas; north to New England, Hew York, Ohio, Michigan, Illinois, Iowa, and Kansas	НА	High as food for wildlife including deer, squirrel, turkey; cover	Fruit edible	None
Viburnum acerifolium L. Arrow-wood HABITAT: moist or dry woods	Eastern Texas	Eastern half United States	NA	High as food for wildlife including deer, squirrel, tirkey; cover	Fruit edible	None
**Viburnum dentatum L. Southern arrow-wood HABITAT: moist and dry woodlands and thickets	Eastern Texas	New England, south to Florida and Texas	Cormon	High as food for wildlife including deer, squirrel, Turkey; cover	Fruit edible	Moderately adverse
**Sambucus canadensis L. Common elder-berry HABITAT: wet soil in low places, especially along streams and on edge of swamps	Eastern and central Texes	Nova Scotia and Quebec, west to Manitoba and South Dakota, scuth to Florida and Texas	Common	High as food for squirrel, cover	Fruit edible and used in in making jellies and wine	Moderately adverse
**Lonicera japonica Thunb. Japanese honeysuckle HABITAT: thickets, open woods, border of woods, along roadsides	Eastern and central Texas	Florida to Texas; north to Massachusetts, New York, Ohio, Indiana, Missouri, and Kansas; introducednative of Asia	Соптпол	High as food and cover, fruit eaten by many birds, plants eaten by deer	Aesthetic, ornamental, pernicious weed endangering native	None
Lonicera sempervirens L. Trumpet honeysuckle HABITAT: woods and thickets	Eastern Texas	Florida to Texas; north to southern Maine, Massachusetts, New York, Ohio, Iowa, and Nebraska	NA	Low as food for quail	May be cultivated	None
**Symphoricarpos orbiculatus Moench Coral-berry HABITAT: woods and thickets, especially along streams	Eastern third of Texas	New York, south to Florida, west to Texas	Соптоп	Moderate as food for birds and mammals, cover	NA	Moderately adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Triosteum angustifolium L. Feverwort HABITAT: woods and thickets	Eastern Texas	Texas to Alabama; north to Connecticut, Pennsylvania, Indiana, Illinois, and MIssouri	NA	МА	H.	None
VALERIANACEAE (valerian family) **Valerianella Moodsiana (T. & G.) Walp. Woods corn salad HABITAT: moist lot sandy or clayey soils in woods and on prairies	Eastern Texas	Texas and eastern Oklahoma	н	RA	Aesthetic	None
**Valerianella stenocarpa (Engelm.) Krok Harrow cell corn salad HABITAT: rocky ledges and low moist grounds, often along rivers	Central and eastern	Endemic to Texas	A A	N A	Aesthetic, scientific	Slightly adverse
**Valerianella radiata (L.) Dufr. Beaked corn salad HABITAT: low moist grounds	Central and eastern	Pennsylvania to Kansas, south to Florida and Texas	:1A	A:A	Aesthetic	Unknown
Momordica Charantia L. Wild balsam-apple HARITAT: Naturalized in thickets and waste places	Southeastern Texas	Florida to Texas, throughout tropical America	Common	Ar.	ил	None
figmordica Balsamina L. Balsam-apple HABITAT: cultivated and escaped to sandy soils	Eastern and southern Texas	Texas and Louisiana, throughout tropical America	Common	¥	ИА	None
**Cucurbita foetidissima H.B.K. Buffalo-gourd HABITAT: sandy or gravelly soils in waste places, especially along roadsides	Western half of Texas	Missouri and Nebraska; south to Texas, Arizona, southern California and Mexico	Сопилоп	МА	Aesthetic	None
**Cucurbita texana Gray Texas gourd HABITAT: in debris and piles of driftwood, often climbing into trees, along several rivers	Edwards Plateau, central Texas	Endemic to Texas	Locally abundant	AN	Aesthetic	None

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Species	State Range	United States Kange	ווווא אנו	7.1.5.1.1.	Accthatic	None
**Melothria pendula L. Melonette HABITAT: sandy and moist rich soils, climbing on	Near the coast and in southern Texas	Florida; west to Texas and Mexico; north to Virginia, southern Indiana,	Common	V .	seeds are reputed to be purgative	
shrubs and small trees		and Oklahoma			4	9
**Ibervillea Lindheimeri (Gray) Greene Globe-berry HABITAT: open dry woodlands or thickets, among brush, in fencerows, open rocky	South-central Texas	Texas and southern Oklahoma	Common	¥X	Aestnetic, ornamental	
soil Sicyos angulatus L. Bur-cucumber HABITAT: wooded areas along streams and rivers	Eastern half of Texas	Southern Maine and western Auebec to Minnesota; south to Florida, Louisiana, and Texas	۷:	H.	Aesthetic	None
CAMPANN ACEAE (bluebell family)						\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
**Sphencolea zeylanica Gaertn. Chicken spike HABITAT: wet places of	Eastern and southern Texas	Introduced in warm regions of the Western Henisphere, native of Old World	NA	v	Aestnetic	2
**Triodanis biflora (R. &P.) Greene Small Venus' looking-glass HABITAT: flelds, forests and prairies, on dry hills,	Most of Texas	Virginia to Kansas, Arizona, Texas, and northern Mexico; west to Oregon and Baja California	Сониюл	NA.	Aesthetic	S1 ight iy adverse
<pre>river banks, in canyons **Triodanis perfoliata (L.) Nfeuw. Clasping Venus' looking-glass HABITAT: disturbed areas</pre>	Eastern two-thirds of Texas	Florida to Texas and northern Mexico; north to New England, southern Quebcc; west	Солтол	NA	Aesthetic	None
**Triodanis texana McVaugh Venus' looking-glass HABITAT: woodlands and plains, on open banks, in depressions, mostly in sandy soils	Eastern Texas	Endemic to Texas	Сонтоп	NA	Aesthetic	None

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Species	State Range	United States Range	in Region	Wildlife Habitat	Other Values	Project Impact
Lobelia appendiculata A. DC. Lobelia HABITAT: sandy open ground, moist places, prairies, pinelands, old fields	Eastern Texas	Alabama to Texas, Arkansas, Oklahoma, Missouri, and Illinois	Common	NA	Aesthetic	None
Lobella spicata Lam. Balespike Tobella HABITAT: prairies, pastures, open woodlands, often in rich soils among herbs and grasses	Southeastern Texas	Eastern Canada to Minnesota; south to Arkansas, Oklahoma, and Texas	Common	NA N	Aesthetic	None
Lobelta floridana Chapm. Lobelta HABITAT: in savannahs	Southeastern Texas	F.om North Carolina to Florida, west to ecstern Texas	NA	NA	Aesthetic	None
Lobelia flaccidifolia Small Lobelia HABITAT: low moist pinelands, savannahs, prairies, wet places along streams and in river swamps	Southeastern Texas	Florida and Georgia in the Guif coastal plain to Texas	Common	W.	Aesthetic	None
Lobelta Reverchonii B. L. Turner Cobelta HABITAT: bogs	Eastern Texas	Texas, east to Alabama	NA	NA	ця	None
Lobelia puberula Michx. Downy Tobelia HABITAT: swamps, wet woods, bogs, prairies, open fields, usually in wet places, often in strongly acid soils in partial shade	Eastern Texas	Southeastern United States, West to Oklahoma and Texas	Common	##	Aesthetic	None
Lobella siphilitica L. Big blue lobella HABITAT: moist woods and swampy places, low places in prairies, sandy or gravelly margins of ponds and streams, wet meadows	North-central Texas	Maine to Minnesota, and Colorado; south to Texas	Соптоп	¥	Aesthetic	None
Lobelta Cardinalis L. Cardinal flower HABITAT: wet or moist soil, open places along streams, meadows, along roadsides, about springs and ponds, in swamps where shade is not too dense	Statewide, except the southern tip	Florida; north to northeastern New Brunswick, southern Quebec, Ontario, Michigan, Wisconsin, and "Innesota; west to Newada, California and Mexico	Соптоп	¥.	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
COMPOSITAE (sunflower family)						
**Vernonia Baldwinii Torr. Baldwin Ironweed HABITAT: NA	North-central Texas, Edwards Plateau, and plains country	Illinois to Minnesota, south to Louisiana and Texas	Uncommon	ПА	Aesthetic	None
**Vernonia missurica Raf. Ironweed HABITAT: NA	Southeastern Texas, infrequent to rare in eastern Texas	Ontario to Iowa, and southwest to Mississippi, Louisiana, Texas	Uncommon	NA	Aesthetic	None
**Vernonia texana (Gray) Small Ironweed HABITAT: NA	Infrequent in eastern Texas, rare in southeastern and north-central Texas	Arkansas, Texas, and Louisiana	Uncormon	NA.	Aesthetic	None
** <u>Elephantopus carolinianus</u> Raeusch. Elephant's-foot HABITAT: sandy forested areas	Eastern and southeastern Texas, rare west to north-central Texas	Southeastern United States	Uncormon	Ħ	Aesthetic	Slightly adverse
**Elephantopus tomentosus L. Tobacco-weed HABITAT: wooded sandy lands	Eastern and southeastern Texas	Southeastern United States	Uncommon	۷::	Aesthetic	None
Liatris aspera Michx. Button-snakeroot HABITAT: sandy soils	Eastern and southeastern Texas	Eastern half United States	Cormon	Low as food for grazing animals	Aesthetic	None
Liatris acidota Engelm. and Gray Botton-snakeroot HABITAT: often wet areas	Eastern and southeastern Texas	Texas and Louisiana	Contron	Low as food for grazing animals	Aesthetic	None
**Liatris <u>pycnostachya</u> Michx. Blazing-star HABITAT: open sandy areas often in or around moist bogs	Eastern and southeastern Texas	Indiana to South Dakota, south to Louisiana and Texas	Cormon	NA N	Aest hetic	Slightly adverse
** <u>Liatris elegans</u> (Nalt.) Michx. Gay-feather HABITAT: deep fine sandy soil	Eastern, southeastern, and north-central Texas, the Rio Grande plains	Coastal states, South Carolina to Texas, inland to Arkansas and Oklahoma	Соптоп	Low as food for grazing animals	Aesthetic	None
Liatris bracteata Gaiser Button-snakeroot HABITAT: prairies	Southeastern Texas	Endemic to Texas	Conmon	Low as food for grazing animals	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Liatris squarrosa (L.) Michx. Button-snakeroot HABITAT: sandy areas	Eastern and southeastern Texas	From Delaware to Illinois and South Dakota, south to the Gulf states	Соптол	Low as food for grazing animals	Aesthetic	None
**Mikania <u>scandens</u> (L.) Willd. Climbing hemp-weed HABITAT: river bottoms and other moist woods	Eastern, south- eastern, and north- central Texas, and Edwards Plateau	Warmer parts of America, north to New England and southern Ontario	Uncommon	Ą	Aesthetic	Slightly adverse
Eupatori.m capillifolium (Lam.) Small Dog-fennel HABITAT: sandy soil	Eastern and southeastern Texas	Southeastern United States	Common	Low as food, seeds eaten by some songbirds	Aesthetic	None
Eupatorium compositofolium Halt. Yankee weed HABITAT: overgrazed pastures, disturbed areas of sandy soil	Eastern and southeastern Texas, coastal parts of Rio Grande plains	Southeastern United States	Abundant	Low as food for some birds	Aesthetic	None
Eupatorium glaucescens Ell. Boneset HABITAT: sandy soil	Eastern and southeastern Texas, south to Aransas County	Southeastern United States	Соптол	Lov as food for some birds	Aesthetic	None
**Eupatorium rotundifolium L. Thoroughwort HABITAT: sandy loam (often moist), forested areas	Eastern and southeastern Texas, rare inland to north-central Texas	Southeastern United States, and near the coast north to New York	Соятол	Low as food, seeds eaten by some songbirds	Aesthetic	Moderately adverse
**Eupatorium perfoliatum L. Thoroughworc HABITAT: moist sand	Eastern Texas	Most of eastern United States	Uncommon	Luw as food, seeds eaten by some songbirds	Aesthetic	None
**Eupatorium serotinum Michx. Late-flowering thoroughwort HABITAT: open places	Eastern, south- eastern, and north- central Texas; south to Kleberg County, and west to	Southeastern United States; north to New Jersey, Ohio, Indiana, Wisconsin, and west to Kansas, Oklahoma, and Texas	Соптол	AM	Aesthetic	None
Eupatorium <u>odoratum</u> L. Crucita HABI:AT: NA	Southeastern Texas, and Rio Grande plains	Gulf states	Uncomman	Low as food for some birds	Aesthetic	None
**Lypatorium coelestinum L. Mist-flower HABITAT: Moist sandy wooded areas	Eastern and southeastern Texas, south to Kleberg, less frequent west to north-central Texas	New Jersey to Kansas, south to Gulf states	Conmon	Low as food, seeds eaten by some songbirds	Aesthetic	Slightly adverse

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Eupatorium incarnatum Walt. Thoroughwort HABITAT: thickets on loamy soil	Rio Grande plains, southeastern Texas, inland to north- central Texas	Mexico; north to West Virginia, Ohio, Indiana, Illinois, Missouri, Oklahoma, and Arizona	Соппло п	Low as food, seeds eaten by some songbirds	Aesthetic	Slightly adverse
Eupatorium rugosum Houtt. White snakeroot AABITAT: various habitats	Eastern, south- eastern, and north- central Texas, Edwards Plateau	Most of eastern United States	Locally common	Low as food for some birds	Aesthetic	None
Baccharis texana (T. & G.) Gray Groundsel-tree HABITAT: various habitats	Local throughout most of Texas	Oklahoma and Texas to Mexico	Locally common	Low as food for grazers	NA	None
**Baccharis halimifolia L. Sea-myrtle HABITAT: open sandy places	Eastern and southeastern Texas, less common west to north-central Texas	Coastal states, Massachusetts to Texas, inland to Oklahoma	Uncommon	Low as food for grazers	Slight ornamental value	None
**Baccharls neglecta Britt. Roosevelt veed HABITAT: roadsides, disturbed areas, usualiy in calcareous	Statewide, except in dense forests of eastern Texas and the higher elevations of plains country	North Carolina to Arizona and south to Mexico	Сопилол	Low as fwd for grazers	N A	None
**Croptilon divaricatum (Nutt.) Raf. Scratch-daisy HABITAT: NA	Eastern, south- eastern, and north- central Texas, Rio Grande plains, central mineral region of Edwards Plateau	Gulf states, north to North Carolina, Arkansas, Kansas, and Texas	Common	NA	NA	None
**Bradburia hirtella T. & G. Mauchia HABITAT: open sandy usually gravelly areas	Eastern, south- eastern, and north- central Texas, northern part of Rio Grande plains	Endemic to Texas	Locally common	<u>\$</u>	Aesthetic	None
Heterotheca subaxillaris (Lam.) Britt, and Rusby Camphor weed HABITAT: coastal sands	Eastern and southern Texas	Coastal states from New Jersey to Mexico	ИА	NA	Aesthetic	None
**Heterotheca latifolia Buckl. Golden aster HABITAT: sandy soil,	Throughout most of Texas	Texas, west to Arizona, north to Kansus and eastern Colorado, expanding to North Carolina	Abundant	N.	Aesthetic	None
**Heterotheca pilosa (Nutt.) Shinners Golden aster HABIT/T: dry open sandy areas	Eastern, south- eastern, and north-central Texas	Missouri and Kansas to Louisiana and Texas	Abundant	NA A	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Xanthisma texanum DC. Sleepy-daisy HABITAT: open sandy places	Rio Grande plains, plains country, and the Llano region of Edwards Plateau, rare east to north- central Texas	Texas and Oklahoma	Rare	NA	Aesthetic	None
**Grindella microcephala DC. Gumweed HABITAT: poorly drained clay	Rio Grande plains; north-central, and southeastern Texas; Edwards Plateau	Texas and Mexico	Common	MA	Aesthetic	None
**Grindella squarrosa (Pursh) Dun. Curly-cup gummeed HABITAT: open areas	Eastern to north- central Texas, plains country, Edwards Plateau, and Trans- Pecos	Most of United States, except southeactern states	Unconmon	Low as food for grazing animals	Aesthetic, ornamental	None
**Prionopsis ciliata (Mutt.) Mutt, Prionopsis HABITAT: open ground	Plains country and north-central Texas, less common in southeastern Texas, rare in eastern Texas and Trans Pecos	Missouri, Kansas and Colorado; south to Texas and New Mexico	Сонтол	и	AH.	None
Xanthocephalum sphaerocephalum (Gray) Shinners Broomweed HABITAT: varíous habitats	Statewide, except extreme eastern and northern parts of Texas	Texas, New Mexico, into Mexico	Common	Ä	NA	None
**Xanthocephalum texanum (DC.) Shinners Broomweed HABITAT: various habitats	Statewide	Oklahoma, Texas, into Mexico	Abundant	NA	Aesthetic	None
**Xanthocephalum dracunculoides (OC.) Shinners Broomwoed HABITAT: various habitats	Statewide, abundant in north-central Texas	Texas and Oklahoma	Abundant	NA	Aesthetic	None
Machaeranthera phyllocephala (OC.) Shinners Camphor doisy HABITAT: subsaline areas near the coast	Southeastern Texas, Río Grande plaíns, coastal areas	Coastal areas from Louisiana to Mexico	Abundant	NA A	Aesthetic	None
Solidago delicatula Small Goldenrod HABLTAT: loamy soft	Eastern, south- eastern, and north- central Texas	Kansas, Missouri, Arkansas, Oklahoma, and Texas	Common	Low as food	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
<u>Solidago Boottii</u> Hook. <u>Goldenrod</u> HABITAT: moist sandy soil	Eastern and southeastern Texas	Southeastern United States: north to New Jersey, Kentucky, and Arkansas	Common	Low as food	Aesthetic	None
Solidago sempervirens L. Fern. Seaside goldenrod HABITAT: marshy often slightly brackish swales and ditches	Southeastern Texas, inland in eastern Texas to Austin and Gonzales Counties	Coastal plains from Massachusetts to Veracruz	Солчпол	Seeds low as food for small birds and mammals	Aesthetic, some urnamental value	None
Solida <u>go rugosa</u> Ait. Goldenrod HABITAT: sandy sofl	Eastern and southeastern Texas	Quebec, Ontario, and eastern United States; west to Michigan, Indiana, Missouri, Arkansas, and Texas	Септоп	Low as food	Aesthetic	None
**Solióago altissima L. Goldenrod HABITAT: open low areas, stream margins	Statewide, most frequent in eastern, southeastern, and north-central Texas	Quebec, Ontario, and eastern United States; west to Wisconsin, Nebraska, Oklahoma, and Texas	Common	Low as food, seeds and leaves eaten by birds and smali mammals	Aesthetic	None
Solidago gigantea Ait. Goldenrod HABITAT: open low areas, stream margins, tight moist calcareous soil	Plains country, north-central Texas, Edwards Plateau, less frequent southeast to eastern and southeastern Texas	Southern Canada and most of United States; south to Utah, Colorado, Texas, and Gulf states	Сопчтоп	Low as food	Aesthetic	None
**Solidago odora Ait. Sweet goldenrod HABITAT: open moist sandy places	Southeastern Texas, south to Aransas County, less frequent inland to eastern Texas	Southeastern United States; north to New England, Ohio, Missouri, and Oklahoma	Coimon	Low as food, seeds and leaves eaten by birds and small mammals	Aasthetic	None
**Solidago nemoralis Ait. Goldenrod HABITAT: dry open areas, calcareous soils, sandy soils	Edwards Plateau and north-central Texas, less common in plains country, and rarely in eastern Texas	Canada; south to Georgia, the Gulf States, New Mexico, and Arizona	Common	Low as food, seeds and leaves eaten by birds and small mammals	Aesthetic	None
Solid <u>ago rigida</u> L. <u>Goldenrod</u> HABITAT: dry open places	North-central Texas; rare to eastern and southeastern Texas, and plains country	Massachusetts to Saskatchewan; south to Georgia, Louisiana, Texas, and Colorado	Uncommon	NA	Aesthetic	None
**Solidago nitida T. & G. Goldenrod HABITAT: open sandy piaces	Eastern and south- eastern Texas, south to Aransas County	Texas, Louisiana, and Oklahoma	Соптоп	Low as food, seeds and leaves eaten by birds and small mammals	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impac
**Aster texanus Burgess Texas aster HABITAT: loamy soils or well-drained clay, open woods and prairies	Eastern, south- eastern, and north- central Texas; and eastern margin of Edwards Plateau	Arkansds, Louisiana, and Texas	Соптол	Low as food for birds and marmals	Aesthetic	None
Aster <u>Aster</u> HABITAT: openings in woods on sandy soil	Eastern Texas and rare in southeastern Texas (Harris County)	Missouri, Arkansas, and Texas	Uncommen	Low as food, seeds eaten by birds	Aesthetic,	None
**Aster <u>Fulae</u> Shinners Aster HABITAT: in usually heavy clay or clay-loam soil, ditches, banks, and openings in river bottom woods	North-central Texas, infrequent to the southern part of eastern and south- eastern Texasperhaps as far south as Nueces County	Endemic to Texas	Соняпол	Low as food for birds and mammals	Aesthetic	None
**Aster <u>lateriflorus</u> (L.) Britt. Aster HABITAT: sandy usually moist or boggy areas	Eastern Texas, rare to southeastern Texas	Southeastern Canada; south to Georgia, Tennessee, Arkansas, and Texas	Солтоп	Low as food for birds and mammals	Aesthetic	None
Aster Aster HABITAT: variety of open situations	North-central and southeastern Texas, plains country, southern and western parts of East Texas, northern part of Rio Grande plains, Trans-Pecos	Southern Canada; south to Gulf states, except Florida and Louisiana; Mexico and Arizona	Соптол	Low as food, seeds eaten by birds	Aesthetic	None
**Aster Aster HABITAT: open dry situations	Eastern Texas, infrequent west to north-central Texas, rare in northern part of Rio Grande plains and in Edwards Plateau and lower plains country	Eastern temperate North America; west to Minnesota, Kansas, and Texas	Uncommon	Low as food for birds and mammals	Aesthetic	None
**Aster <u>Pratensis</u> Raf. Aster HABITAT: prafries and open woods, usually sandy soil	Eastern, south- eastern, and north- central Texas south to Aransas and DeWitt Counties	Texas and Louisiana	Соптоп	Low as food for birds and mammals	Aesthetic	None
**Aster subulatus Michx, Hierba del marrano HABITAT: ditches, swales, margins of ponds, lakes, and striams, poorly drained areas	Statewide, most abundant aster	Widespread in warmer parts of America; north to South Carolina, Missouri, Kansas, New Mexico, Arizona, and California	Abundant a	Low as food for birds and mammals	Aesthetic, weed	None

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Species	State Range	United States Rarge	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Chaetopappa asteroides (Nutt.) DC. Chaetopappa HABITAT: open sandy places	Eastern, south- eastern, and north- central Texas; Rio Grande plains; and the Llano region of Edwards Plateau, rarely west of eastern part of plains country	Missouri, Kansas Arkansas, Louisinna, and Texas	Соммол	NA	Aesthetic	None
Erigeron philadelphicus L. Philadelphia fleabane HABITAI: moist loam	Eastern, south- eastern, and north- central Texas; Edwards Plateau	Most of United States, and southern Canada	Соптоп	HA	Aesthetic	None
**Erigeron annuus (L.) Pers. Gaisy-fleabane HABIIAT: open ground	fastern and north- central Texas	Most of United Stafes, and southern Canada	Rane	ПА	Aesthetic	None
**Erigeron strigosus Willd White-top daisy HABITAT: open loamy ground	Eastern and north- central Texas, plains country, extreme northern Rio Grande plains	Most of United States, and southern Canada	Uncommon	द्य	Kesthetic	None
**Erigeron <u>tenuis</u> T.&G. Fleabane HABITAT: open often tight clay soils	Eastern, south- eastern, and north- central Texas; rare west to Burnet County on Edwards Plateau	Missouri, Arkansas, Louisiana, Oklahoma, and Texas	Сопитол	IIA	Aesthetic	None
Erigeron myrionactis Small Fleabane HABITAT: coastal sands	Southeastern Texas, Rio Grande plains	Louisiana, Texas, and Mexico	Common	NA NA	Aesthetic	None
**Conzya canadensis (L.) Cronq. Horse-weed HABITAT: various habitats	Statewide	Widespread in temperate North America	Consnon	NA	Aesthetic	None
Boltonia asteroides (L.) L'Hér. Doll's dalsy HABITAI: NA	Eastern and south- eastern Texas	Most of eastern United States	Rare	NA	Aesthetic, ornamental	None
**Boltonia diffusa Ell. Boltonia HABITAT: NA	Eastern and south- eastern Texas	Georgia and Gulf states; north to Kentucky, Illinois, and Missouri	Uncontrion	42	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project impact
Astranthium integrifolium (Michx.) Nutt. Astranthium HABITAT: open sandy places	North-central, eastern, and south- eastern Texas; eastern part of plains country, Rio Grande plains	Southeastern United States	Abundant	Low as food	Aesthetic	None
Aphanos tephus skirrhobasis (DC.) Trel. Lazy daisy HABITAT: open sandy places, coastal sands	Eastern, south- eastern, and north- central Texas, plains country, Edwards Plateau, and Rio Grande plain	Texas, Arkansas, Oklahoma, Florida, and Louisiana	Abundant	Z	Aesthetic	None
Evax candida (T. & G.) Gray Rabbit-tobacco HABITAT: sandy prairies	Eastern, south- eastern, and north- central Texas	Endemic to Texas	Locally abundant	NA	Aesthetic	None
**Gnaphallum obtusifolium L. Fragrant cudweed HABITAT: various habitats	Eastern, south- eastern, and north- central Texas, infrequent west to Edwards Plateau	Gulf states, north to eastern Canada	Соптсп	AM	Aesthetic	None
**Gnaphalium pensilvanicum Willd. Cudweed HABITAT: common in sandy soils	Widespread but scattered in eastern half of Texas, Rio Grande plains	Gulf states, north to Pennsylvania; southern California	Сочноп	NA	Aesthetic	None
**Gnaphalium purpureum L. Purple cudweed HABITAT: sandy soils	Eastern half of Texas, as far west as the Llano region of Edwards Plateau	Widely distributed in warmer parts of America; north to New England, New York, Ohio, Indiana, Illinois, Missouri, Kansas, and Oregon	Солтол	MA.	Aesthetic	None
**Gnaphalium <u>falcatum</u> Lam. Cudweed HABITAT: NA	Eastern half of Texas	Introduced in the southeastern states and occurring west to Texas	Locally common	N A	Aesthetic	None
Antennaria fallax Greene Pussy's toes HABITAT: sandy forested areas	Eastern Texas, west to north-central Texas	Most of eastern United States	Соптоп	Low as food	Aesthetic	None
**Pterocaulon virgatum (L.) DC. Blackroot HABITAT: sandy soils	Eastern and south- eastern Texas, Rio Grande plains	Texas, and eastern Mexico	Uncommon	NA	Aesthetic	None
**Pluchea camphorata (L.) DC. Camphor-weed HABITAT: moist places	Eastern, south- eastern, and north- central Texas	Southeastern United	Соптоп	Food for small rodents	Aesthetic	None

Charles	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Pluchea purpurascens (Sw.) DC. Canela, marsh-fleabane HABITAT: muddy places	Statewide, most abundant species	Soutinern half of United States, south to South America	Common	Low as food for small rodents	Asthetic	None
**Plunchea foetida (L.) DC. Stinking-fleabane HABITAT: mud	Eastern and south- eastern Texas, south to Aransas County	Southeastern United States	Uncommon	Low as food, sometimes eaten by small rodents	Aesthetic	None
**Polymnia Uvedalia (L.) L. Bear's-foot HABITAI: moist previces of limestone soil near streams	North-central Texas and eastern edge of Edwards Plateau	Much of eastern United States, west to Oklahoma and Texas	Uncommon	ПА	Aesthetic	None
** <u>Silphium Simpsonii</u> Greane Rosin-weed HABITAT: NA	North-central and eastern Texas	Louisiana, Texas, and Florida	Uncommon	Low as food, seeds eaten by grouse and small rodents	Aesthetic	None
Silphium gracile Gray Rosin-weed HABITAT: sandy soil	Southeastern Texas, scuth to Aransas County	Texas and Louisiana	Uncommon	Low as food	Aesthetic	Nove
**Berlandiera pumila (Michx.) Nutt. Green-eyes HABITAT: along roadsides and grazed areas, woodland borders and open woodlofs, often in deep loose sandy soils	Eastern Texas	South Carolina, Georgia, Florida, Alabama, Louisiana, and Texas	Common	Ν	Aesthetic	None
** <u>Lindheimera</u> <u>texana</u> Gray and <u>Engelm.</u> Texas yellow star HABITAT: prairies	North-central and southern part of eastern Texas and Edwards Plateau, less abundant in plains country	Texas and Mexico	Abundant	NA	Aesthetic, ornamental	None
**Engelmannia pinnatifida Nutt. Engelmann daisy HABITAT: calcareous open uplands	North-central Texas and Edwards Plateau	Nebraska, Colorado, Kansas, Oklahoma, Texas, and New Mexico	Сомтол	NA	Aesthetic, ornamental	None
**Parthenium <u>Hysterophorus</u> L. False ragweed HABITAT: disturbed ground	Rio Grande plains and southeastern Texas, less frequent north into north- central Texas	Very widespread in warmer parts of America; adventive as weed north to Massachusetts, Michigan, and Oklahoma; perhaps adventive to Texas	Соптоп	NA N	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project impact
Iva frutescens L. Marsh-elder HABITAT: mud flats and shallow water in coastal areas	Southeastern Texas, southwest as far as San Patricio County	Along the coast from Nova Scotia to Texas	Uncommon	low as food, minor food for quail; cover	ИА	None
**Iva annua L. Warsh-elder HABITAT: varíous habitats	Eastern half of Texas; west to Wheeler, Taylor, Travis, DeWitt, and Hidalgo Counties	Most of eastern United States; west to Nebraska, Kansas, Oklahoma, and Texas	Соптоп	Low as food, minor food for quail	NA	None
**Iva angustifolia DC. Marsh-elder HABITAT: various habitats	Most of Texas except Panhandle	Arkansas, Oklahoma, Texas, and Louisiana	Locally abundant	Low as food, minor food for quail	AN	None
**Ambrosia trifida L. Glant ragweed HABITAT: seasonally moist stream bottoms and overflow areas	Throughout the eastern and nor thern halves of Texas	Throughout the midwest, and central United States to the Rocky Mountains; and from southern Canada to northern Mexico; adventive in New England, Florida, and the far west	Abundant	Low as food, minor food for quai l	Sometimes noxious weed	Slightly adverse
**Ambrosia artemisiffolia L. Short ragweed HABITAT: various habitats	Scattered in local populations through much of Texas, except the extreme southern and western areas	Throughout the United States, except the far southwestern area	Uncommon	High as food; seeds eaten by teal, marshbirds, gamebirds, songbirds, and small mammals; foliage eaten by rabbits and deer	Source of allergenic pollen	None
**Ambrosia psilostachya DC. Western ragweed HABITAT: various habitats	Coastal plain, central Texas, plains country, and Trans- Pecos	Throughout most of United States, except Rocky Mountains and east-central states; south to central Mexico	Abundant o	High as food; seeds eaten by teal, marshbirds, gamebirds, song- birds, and small mammals; foliage eaten by rabbits and deer	¥ z	None
**Xanthium strumarium L. Cocklebur HABITAI: various habitats	Statewide	Widespread throughout United States	Common	Moderate as cover	Burs sometimes become matted in livestock's	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
Hellopsis gracilis Nutt. Bushy sea ox-eye HABITAT: loamy soil	Southeastern Texas	Florida, Georgia, Alabama, Louisiana, and Texas	Uncommon	Moderate as cover	Aesthetic	None
**Heliopsis helianthoides (L.) Sweet 0x-eye HABITAT: open sandy woods	Northern part of eastern Texas	Illinois, Missouri, Arkansas, Oklahoma, Texas, and Louisiana	Uncommon	иА	Aesthetic	None
Tetragonotheca repanda (Buckl.) Small Herve-ray HABITAT: sandy prairies	Southeastern Texas and coastal part of Rio Grande plains	Endemic to Texas	Соптоп	NA	Aesthetic	None
**Eclipta alba (L.) Hassk, Yerba de tago HABITAT: mud at the edges of fresh water bodies	Statewide	Warmer areas of United States	Соптоп	NА	Aes thetic	Moderately beneficial
**Spilanthes americana (Mutis) Hieron. Creeping spot-flower HABITAT: mud along streams, bayous, lakes, ditches	Eastern, south- eastern, and north- central Texas	Southeastern United States	Locally common	AN.	٩n	Moderately beneficial
Echinacea sanguinea Nutt, Purple cone-riower HABITAT: sandy open prairies and pine barrens	Eastern and south- eastern Texas	Southwestern Arkansas, south- eastern Oklahoma, western Louisiana, and Texas	ИА	ИА	Aesthetic	None
**Rudbeckia hirta L. Cone-frower HABITAT: sandy wooded areas, various situations	Eastern two-thirds of Texas	Eastern half United States	Соптоп	H.A	Aesthetic	None
Rudbeckia grandiflora (Sweet) DC. Brown-eyed susan HABITAT: NA	Eastern and south- eastern Texas	Arkansas, Oklahoma, Louisiana, Georgia, and Texas	Locally abundant	S	Aesthetic	None
** <u>Dracopis amplexicaulis</u> (Vahl) Cass. Oracopis HABITAT: moist places	Eastern two-thirds of Texas, rare in plains country and Rio Grande plains	Coastal states. Georgia to Texa.	Соттоп	NA	ИА	None
**Ratibida columnaris (Sims) D. Don Mexican hat HABITAT open usually calcareous soils	Western two-thirds of Texas, absent only from extreme eastern Texas	Central United States	Abundant	ИА	Aesthetic, ornamental	None

Species	State Rando	Interd Chatch	Abundance	Use for		
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Natibida peduncularis (1. & G.) Barnh. Mexican hat HABITAT: sandy (usua'ly loose) soils	Eastern and south- eastern Texas, and extreme coastal part of Río Grande plains	Trvas and Louisiana	Солтоп	NA	Áesthetic	None
Borrichia frutescens (L.) DC. Sea ox-eye daisy	Coastal areas of Texas, inland in local areas of poor drainage and sait accumulation	Coastal areas, District of Columbia to Veracruz	Abundant	NA	Aesthetic	None
**Helianthus grosse-serratus Martens Sunflower HABITAT: NA	North-central Texas, and near Gonzales, Gonzales County in south-central Texas	Ohio to North Dakota and south to Texas	Rare	Low as food for quail	Aesthetic, sometimes cultivated	None
**Helianthus Maximiliana Schrad. Maximilian suaflower HABITAT: seasonally moist ditches, depressions or prairies	North-central and southeastern Texas, Edwards Plateau, plains country, Trans-Pecos	Southern Canada; south in central United States to Texas and in coastal states to North Carolina	Uncommon	High as foo:, seeds important thod for gamehirt, computational birds, and small mammals	Aesthetic, ornamental	None
**Helianthus hirsutus Raf. Sunflower .ABITAT: variety of habitats	Eastern, south- eastern, and north- central Texas, infrequent to eastern Edwards Plateau	Most of eastern United States	Uncommon	Low as food for quail	Aesthetic	None
Helianthus mollis Lam. Sunflower HABITAT: sandy soil	Eastern, south- eastern, and north- central Texas	Most of eastern United States	Соттол	Low as food for quail	Aesthetic	None
**Helianthus angustifolius L. Sunflower HABITAT: moist places	Eastern and southeastern Texas	New Jersey, south to Florida, west to Iowa and Texas	Rane	Low as food for quail	Aesthetic	None
Hellanthus argophyllus T. & G. Silverleaf sunflower HABITAT: deep loose sandy soils	Southeastern Texas and Rio Grande plains; scattered and perhaps introduced in eastern Texas	Perhaps endemic but now introduced widely in the Gulf states	Locaily abundant	Low as food for quail	Aesthetic, ornamental, cultivated	None
**Kellanthus annuus L. Common sunflower HABITAT: various habitats	Eastern and southern halves of Texas	Eastern and central United States and southern Canada	Cormon	High use by gamebirds, song-birds, and rodents for	Aesthetic, seeds edible, cultivated	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Helianthus debilis Nutt. Sunflower HABITAT: sandy soil	Eastern Texas and coastal plains	Endemic to Texas	Uncomnon	Low as food for quail	Aesthetic	None
Simsia <u>calva</u> (Engelm. and Gray) Gray Bush sunflower HABITAT: various habitats	Abundant in Rio Grande plains, frequent in Trans-Pecos, north-central and southeastern Texas, Edwards Plateau, plains country	Texas and Mexico	Common	NA	Ornamental	None
**Verbesina encelloides (Cav.) Gray Cowpen daisy HABITAT: disturbed soils	Statewide, although rare in extreme eastern Texas	Florida, Texas, and southeastern through most of the warmer parts of America	Abundant	Moderate as food for some birds and rodents	hesthatic	None
Verbesin <u>a microptera</u> DC. Capitana HABITAT: loamy soil	Rio Grande plains, southern part of Edwards Plateau, and southern part of southeastern and eastern Texas	Texas and Mexico	Abundant	Moderate as food for some birds and rodents	Aesthetic	None
**Yerbesina <u>virginica</u> L. <u>Frostweed</u> HABITAT: loamy soil	Eastern, south- eastern, and north- central Texas	Gulf states; north to Pennsylvania, Kentucky, Missouri, and Kansas	Abundant	Noderate as food for some birds and rodents	Aesthetic	None
**Calyptocarpus vialis Less. Prostrate lawnflower HABITAT: various habitats	Widespread in eastern half of Texas	Gulf coastal plain	Сомтол	Low as food, sometimes eaten by small rodents	Aesthetic, lawn weed	None
**Coreopis nuecensis Heller Tick-seed HABITAT: sandy soils, coastal areas	Coastal parts of Rio Grande plains, southeastern, north- central, and eastern Texas	Endemic to Texas	Abundant	на	Aesthetic	None
**Coreopsis basalis (Otto and Dietr.) Blake Tic.*-seed HABITAT: sandy and limestone soils	Eastern half of Texas, and west on to Edwards Plateau and the lower parts of plains country	Endemic to Texas, perhaps venturing as far west as New Mexico infrequently	Abundant	ИА	Aesthetic	None
**Coreopsis tinctoria Hutt. Tick-seed HABITAT: seasonally moist soils	Eastern half of Texas	Minnesota, Saskatchewan, and Washington; south to Louisiana, Texas, New Mexico, and California	Abundant	#A	Aesthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Coreopts cardaminaefolia (DC.) Nutt. Manzanila silvestre HABITAT: seasonally moist soil	Statewide	Texas, Louisiana, Rebraska, New Mexico, and Arizona; south into Mexico	Abundant	Ä	Aesthetic	None
Bidens aristosa (Michx.) Britt. Tickseed sunflower HABITAT: moist or seasonally moist soil	Eastern and southeastern Texas	Most of eastern United States	Uncommon	Minor as food	Aes thet ic	None
Bidens polylepis Blake Beggar-ticks HABITAT: NA	Eastern and south- eastern Texas	Midwest United States and south to Texas	Common	Minor as food	Aesthetic	None
**Bidens discoldea (T. & G.) Britt. Beggar-ticks HABITAT: NA	Eastern and south- eastern Texas	Southeastern Canada and eastern United States	Соптол	Low as food, seeds of minor value to birds and fur-bearing mammals	Aesthetic,	None
Bidens frondosa L. Beggar-ticks HABITAT: near moist places	Eastern half of Texas, reported from Hemphill County in Panhandle	Eastern Canada, most of United States	Сопилол	Minor as food	Aesthetic	None
**Bidens laevis (L.) B.S.P. Beggar-ticks HABITAT: near water	Eastern, south- eastern, and north- central Texas; Edwards Plateau; Trans-Pecos	Most of United States, except higher mountain areas	Uncommon	Low as food, seeds of minor value to birds and fur-bearing mammals	Aesthetic, colonizes sand areas, roots poisonous	None
**Bidens bipinnata L. Spanish-needles HABITAT: moist places	Eastern Texas, Trans-Pecos	Most of eastern United States	Uncommon	Low as food, seeds eaten by wood duck, gamebirds, and songbirds; foliage eaten by rabbit	Aesthetic	None
Thelesperma filifolium (Hook.) Gray Green-thread HABITAT: various habitats	Widespread in north- central Texas, eastern part of plains country, extreme southern portion of eastern and south- eastern Texas, infrequent in Rio Grande plains, and Trans-Pecos	Arkansas, Oklahoma, Louisiana, and Texas	Abundant	NA N	Aesthetic	None

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**Thelesperma flavodiscum (Shinners) B.L. Turner Green-thread HABITAT: deep fine sandy soils	Southern and south- eastern portion of eastern Texas	Endemic to Texas	Соптол	NA NA	Aesthetic	None
Marshalla caespitosa OC. Barbara's-buttons WARITAT: limy cuestas,	Eastern half of Texas	Mississippi, Arkansas, Common Oklahoma, Louisiana, and Texas	Соптоп	NA	Aesthot:c	None
Marshallia tenuifolia Raf. Marshallia HABIRTI: sandy usually moist soil. forests	Eastern and southeastern Texas	Coastal states, Georgia to Texas	Uncommon	Ā	Aesthetic	None
**Gaillardia pulchella Foug. Indian blanket HABITAT: prairies, often sandy areas,	Statewide, but rare in densely forested eastern areas	Nebraska, Colorado, and Arizona, south to Mexico, rare east to Arkansas and along coastal sandy areas to Virginia	Conmon	AN.	Aesthetic, ornamental	None
Gaillardia Amblyodon Gay Indian blanket HABIAT: sandy prairies, open woods	Southeastern and eastern Texas, Rio Grande plaíns	Endemic to Texas	Соптоп	NA N	Aesthetic, ornamental	None
**Gaillardia aestivalis (Walt.) Rock Indian blanket HABITAT: sandy soils, open woodlands and prairies	Eastern part of Texas, south to Willacy County and west to Medina County	Coastal states South Carolina to Texas; inland to Illinois, Missouri, Arkansas, and Oklahoma	Соптол	NA	Aesthetic, ornamental	None
Gaillardía fastigiata Greene Indian blanket HABITAT: open woods and prairies, sandy soil	Eastern half of Texas	Kansas, Oklahoma, Arkansas, and Texas	Conmon	AA A	Aesthetic, ornamental	Rone
**Helenium autumnale L. Sneezeweed HABITAT: moist usually calcarcous places	North-central and eastern Texas, Edwards Plateau and plains country	Widespread in temperate North America	Uncommon	ИА	Aesthetic	None
**Helenium microcephalum DC. Sneezeweed HABITAT: overgrazed areas, especially in low seasonally moist areas of clay soil	Western half of Texas, east to Brazos and San Patricio Counties	Texas into Mexico	Abundant	NA	Aesthetic, poisonous	None

Species	State Range	United States Range	Abundance in Region	Jse for Wildlife Habitat	Other Values	Project Impact
**Helentum quadridentatum Labill. Sneezeweed HABITAT: variety of habitats	Trans-Pecos, Edwards Plateau, Rio Grande plains, and north- central Texas	Texas, Louisiana, Mississippi, Oklahoma, into Mexico	Common	IIA	Aesthetic	None
**Helenjum amarum (Raf.) Rock Bitterweed HABITAT: usually disturbed sandy or loamy soil	Eastern two-thirds of Texas	Southeastern United States	Conmon	NA	Aesthetic	Slightly beneficial
Helenium flexuosum Raf. Sneezeweed HABITAT: moist sandy places	Eastern and southeastern Texas	Eastern United States; west to Missouri, Oklahoma and Texas	Uncommon	NA NA	VI.	None
Helenium Drummondii Rock Sneezeweed HABITAT: poorly drained areas	Eastern and southeastern Texas	Texas, Louisiana, and Florida	Uncormon	NA N	Aesthetic	None
**Hymenoxys linearifolia Hook, Bitterweed HABITAT: prairies, flood- plains, weedy places, mountains, limestone soil	Statewide	Oklahoma, Hew Hexico, Texas, into Mexico	Locally abundant	HA	Aesthetic	None
Hymenoxys scaposa (DC.) Parker Bitterweed HABITAT: limestone soil, disturbed areas, sandy calcareous soil	Widespread over Texas except in extreme eastern area	West-central United States to Rocky Mountains	Сонтол	NA	Aesthetic	None
**Dyssodia tagetoides T. & G. Marigold dogweed HABITAT: NA	North-central Texas; south to Bexar and Fayette Counties	Central Oklahoma, south to south-central Texas	On Texas rare and endangered plant list	ВA	Aesthetic	None
**Palafoxia Reverchonii (Bush) Cory Palafoxia HABITAT: sandy forested areas	Eastern Texas	Endemic to Texas	Uncommon	VN	Aesthetic	None
Palafoxia Hookeriana T. & G. Palafoxia HABITAT: sandy soil	Southeastern Texas, southwestern part of eastern Texas, coastal parts of Rio Grande plains	Endemic to Texas	Cormon	NA	Aesthetic	None
**Palafoxia <u>rosea</u> (Bush) Cory Palafoxia HABITAT: sandy soil	Eastern, south- eastern, and west to north-central Texas	Endemic to Texas	Rare	МА	Aes thet ic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project impact
**Hymenopappus tenuifolius Pursh Woolly-white HABITAT: calcareous loamy soils	Plains country and north-central Texas, south to the northern edge of the Rio Grande plains	South Dakota and Colorado, south to Texas and New Mexico	IIA	HA	Austhetic	None
**Hymenoppapus scabiosaeus L'Hér, Old Plainsman HABITAT: calcareous often tight clay prairie soils	Lower parts of plains country, north- central, and south- eastern Texas, Rio Grande plains, Edwards Plateau, and Trans-Pecos	Central and south- eastern United States	Сонтоп	V _V .	Aesthetic	None
**Hymenopappus artemisiaefolius DC. Woolly-white HABITAT: sandy soils	Eastern, south- eastern, and north- central Texas	Texas and Louisiana	Conrnon	116	Aesthetic	None
**Anthemis <u>Cotula</u> L. Mayweed MABITAT: waste places, escape from cultivation	Eastern two-thirds of Texas	Adventive in the world, native of Europe	Uncommon	Low as food, seeds eaten by variety of songbirds	Aesthetic, Source of "camomile", a useful stomach drug	Slightly beneficial
**Achillea millefolium L. Common yarrow HABITAT: disturbed soil	Northern half of Texas	Throughout most of North America, native of Europe and Asia	Common	Low use by illdlife for food	Aesthetic	Slightly beneficial
Artemisia ludoviciana Nutt. Western mugwort HABITAT: various habitats	Statewide, except extreme southern area	Widespread in temperate North America	Сопипоп	Low for food and cover	Aesthetic, ornamental, low quality forage for livestock	None
Soliva Mutisii H.B.K. Button hurweed HABITAT: disturbed ground	Southeastern and eastern Texas, and Rio Grande plains	Adventive to Texas, from Colombia and Ecuador	Locally common	NA	Aesthetic, noxious weeds	None
Soliva stolonifera (Brot.) Loud. Burweed HABITAT: NA	Eastern and south- eastern Texas	Widely adventive, native of Uruguay, and Argentina	Rare	ИА	Aesthetic, noxious weeds	None
Soliva pterosperma (Juss.) Less. Burweed HABITAT: NA	Eastern and south- eastern Texas	Native of South America, now widely adventive elsewhere	Locally common	ИА	Aesthetic, noxious weeds	None
**Senecio ampullaceus Hook. Texas groundsel HABITAT: sandy soils	Rio Grande plains; north-central, eastern, and south- eastern Texas; plains country	Endemic to Texas	Abundant	Low as food	Aesthetic	None

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Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Senecio obovatus Muhl. Golden groundsel MABITAT: calcareous soil	Edwards Plateau and north-central Texas, less common in eastern Texas	Most of eastern and southeastern United States; west to Illinois, Kansas, Oklahoma, and Texas	Соптоп	Low food value	Aesthetic	None
**Senecio imparipinnatus Klatt Groundsel NABITAT: various habitats	Eastern half of State, plains ccuntry, Edwards Plateau	Texas Oklahoma, Louisiana, and into Mexico	Abundant	LOW as food	Aesthetic	None
**Senecto glabellus Potr Butterwood MABITAT: sandy soil	Eastern Texas	Southeastern United States; north to North Carolina, [1]inois and Hissouri; west to Kansas, Oklahoma, and Texas	On Texas rare and endangered plant list	lone.	High aesthetic, scientific	None
Cacalla plantaginea (Raf.) Shinners Indian plantain HABITAT: open areas	Eastern, south- eastern, and north- central Texas	Widespread in eastern United States	Cormon	V 2	Aesthetic	None
Cacalia lanceolata Mutt. Indian plantain HABITAT: NA	Eastern and south- eastern Texas	Coastal southeastern states	Uncormon	♥:	Aesthetic	None
**Erechtites hieracifolia (L.) Raf. Fireweed HABITAT: muddy places	Southeastern and eastern Texas	Eastern United States	И псо и виоп	High as food, seeds eaten by birds and small mammals; valuablo forb for browsers	High aesthetic, ornamental	None
**Centaurea americana Autt. Basket-flower HABITAT: various habitats	Statewide, except sandy forested areas of eastern Texas	Missouri to Arizona and south to Louisian Louisiana and Mexico	Localiy abundant	Moderate for food, seeds eaten by upland gamebirds, songbirds, and small mammals	Aes the t.i.c	None
**Centaurea solstitialis L. Barnaby star-thistle HABITAT: disturbed soil especially along roadsides	North-central Texas	Widely adventive in North America, native of Europe	Rare	Moderate for food, seeds eaten by gamebirds, song- birds, and small	Aesthetic	None
**Cirsium horridulum Michx. Bull thistle HABITAT: open sandy places	Eastern and south- eastern Texas, ccastal part of Rio Grande olains	Mostly on coastal plainMaine to Texas	Conmon	nA A	Acsthetic	None

Species	State Range	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project Impact
**Cirsium ochrocentrum Gray Yellow-spine thistle HABITAT: open areas, often disturbeć soil	Trans-Pecos, plains country, Edwards Plateau, and eastern to north-central lexas	Nebraska south to Texas and west to Arizona	Соптоп	NA A	Aesthetic	None
**Cirsium texanum Buckl. Texas thistle HABITAT: disturbed soils, along roadsides and in fields	Statewide, except extreme eastern Texas, extreme western part of Trans-Pecos, and the higher parts of plains country	Oklahoma into Mexico	Locally abundant	ИА	Aesthetic	None
**Onobordum Acanthium L. Cotton thistle HABITAT: near stockyards	Morth-central Texas	Adventive in North America, native of Europe	Rare	NA	Aesthetic	None
**Krigia Dandelion (L.) Mutt. Potato-dande:1on HABITAT: sandy soils	Eastern, south- eastern, and north- central Texas	Gulf states; north to Hew Jersey, Indiana, Illinois, Missouri, and Kansas	Uncormon	NA	Aesthetic	None
**Krigia virginica (L.) Willd. Dwarf dandelion HABITAT: sandy soils	Eastern and north- central Texas	Eastern United States	Соптоп	Al:	Aesthetic	None
Krigia occidentalis Nutt. Owarf dandelion HABITAT: various habitats	Eastern, south- eastern, and north- central Texas	Missouri, Oklahoma, Arkansas, and Texas	Common	ИА	Aesthetic	None
**Krigia oppositifolia Raf. Dwarf dandelion HABITAT: various habitats, lawns, and roadsides	Eastern, south- eastern, and north- central Texas	Gulf states; north to North Carolina, Tennessee, Arkansas, and Kansas	Соптоп	11A	Aesthetic, weedy	None
**Krigia gracilis (DC.) Shinners Dwarf dandelion HABITAT: seasonally moist clay loam	North-central and eastern Texas	Endemic to Texas	Uncommon	ИА	Aesthetic	None
**Pyrrhopappus multicaulis DC. False dandelion HABITAT: sandy soil, kigh marsh	Eastern, south- eastern, and north- central Texas; Rio Grande plains, Edwards Plateau, and plains country	Oklahoma, Texas, and into Mexico	Abundance	Low as food, eaten by song- birds	Aesthetic	None
**Pyrrhopappus carolinianus (Walt.) 0C False dandelion !ABITAT: sandy soils	Eastern, south- eastern, and north- central Texas	Southeastern United States; north to Delaware, Indiana, Missouri and Kansas; west to Oklahoma and Texas	Соптол	Low as food, eaten by song- birds	Aesthetic	None

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	00000	United States Range	Abundance in Region	Use for Wildlife Habitat	Other Values	Project impact
Species	State Range			63	Apothotic	None
Lygodesmia texana (T. 8G.)	Eastern, south- eastern, and noith-	Texas, Oklahoma, and into Mexico	Common	W.		}
Skeleton-plant HABITAT: open usually	central Texas; Trans-Pecos; Rio					
calcareous places	Granue plains, Edwards Plateau; and plains country				:	No.
**Tragopogon porrifolius L.	North-central Texas, Trans-Pecos, and	Widely adventive in United States, native	Rare	NA	Aesthetic, root edible	AIION
Saising Saising Parious habitats,	plains country	of Europe			:	:
**Sonchus oleraceus L.	Statewide	Nucely adventive in United States, native	Common	ИĄ	Aestnetic	None
HABITAT: disturbed ground		of Europe			A	O CON
**Sonchus asper (L.) Hill Sow thistle	Statewide	Widely adventive in United States, native of Europe	Совтоп	liA	Aesthetic	a con
RABITAT: disturbed ground	:		llacomon	Coderate as food, Aesthetic	Aesthetic	None
**Lactuca Serriola L. <u>Prickly</u> lettuce HABITAT: disturbed soil	Eastern and north- central Texas, Edwards Plateau, Trans-Pecos, and	Aidely adventive in United States, native of Europe		seeds eaten by songbirds, foliage eaten by deer		
**Lactuca ludoviciana (iutt.) Ridd.	Scattered statewide	Ontario, Minnesota, Iowa, and Mebraska:	Uncommon	Noderate as food, seeds eaten by	Aesthetic	Ncne
HABITAT: usually in		south to Texas		eaten by deer		:
**Lactuca floridana (L.) Gaertn. Lettuce Lottuce	Eastern, south- eastern, and north- central Texas	Eastern United States	Common	Moderate as food, seeds eaten by songbirds, foliage	Aesthetic	None
מאסוואוי אמן וסמט ממסט				eaten by weer		
**Crepis capillaris (L.) Wallr. Hawk's-beard HABITAT: NA	Trans-Pecos	Widely adventive, native of Europe	Rare	None	Aesthetic, lawn weed	None

			Abundance	Use for		
Species	State Range	United States Range		Wildlife Habitat Other Values Project Impact	Other Values	Project Impact
**Taraxacum officinale Wiggers Common dandelion HABITAT: lawns, roadsides, disturbed areas	Statewide, except extreme south	Widely adventive, native of Europe	Abundant	High use for food by gamebirds, songbirds, small mammals, fur and game mammals	Aesthetic	None

*NA = data and/or information not available or known **Plants identified by project personnel and consultants Source: Addy and MacNamara (1948); Borden (1974); Boyd (1974); Carruth and Levis (1973); Collins (1959); Darlington, Ecssey, and Tegee (1945); Dormon (1959); Jepson (1970); Kearney and Peebles (1942); Lay (1972, 1973); Martin, Zim, and Helson (1951): "Fedsger (1972); Junz and Keck (1970); Mixon and Willett (1974); Parks, Cory, and others (1936); Rechenthin (1972); Rickett (1969); Rideout (1973); Shinners (1972); Texas Forest Service (1963, 1971); USDA, Soil Conservation Service (1972); Vines (1960)